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Sep 79

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U.S. DEPARTMENT OF THE INTERIOR

Water Resources Data for Georgia

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT GA-78-1

WATER YEAR 1978

Prepared in cooperation with the State of Georgia
and with other agencies

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U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

CALENDAR FOR WATER YEAR 1978

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Water resources data for the 1978 water year for Georgia consists of records of stage, discharge, and water quality of streams, and stage and contents of lakes and reservoirs. This report contains discharge records for 101 gaging stations; stage for 10 gaging stations; stage and contents for 16 lakes and reservoirs; water quality for 18 continuous stations and 114 periodic stations; and peak stage and discharge only for 96 crest-stage partial-record stations and 15 miscellaneous sites. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Georgia.

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Doraville, Georgia 30360

1979

PREFACE

This report was prepared by personnel of the Georgia district of the Water Resources Division of the U.S. Geological Survey under the supervision of J. R. George, District Chief, and L. B. Laird, Regional Hydrologist, Southeastern Region. It was done in cooperation with the State of Georgia and with other agencies.

This report is one of a series issued State by State. General direction for the series is by J. S. Cragwall, Jr., Chief Hydrologist, U.S. Geological Survey, and Solomon M. Lang, Acting Assistant Chief Hydrologist for Scientific Publications and Data Management.

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[Letters after station names designate type of data:
(d) discharge, (g) gage height, (c) chemical, (b) biological,
(m) microbiological, (t) water temperature, (s) sediment]

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NOTICE

During water year 1978, revisions were made in the terminology used to define 143 of the water-quality parameter codes that have been used by the Geological Survey in its publication of water-quality data and in its WATSTORE data system. These revisions were made to achieve consistency in terminology and to conform to a joint USGS-EPA agreement on terminology. They do not represent a change in the way the codes have been used in the past or in the association of specific code numbers with identified analytical procedures.

Use of the new terminology began with data for the 1978 water year, and therefore, it first appears in this publication. Definitions on which the terminology is based are included in the "Definitions" section of this report, and listings showing both old and new terminology is attached as an appendix to the report.

WATER RESOURCES DATA FOR GEORGIA, 1978

INTRODUCTION

Water resources data for the 1978 water year for Georgia consists of records of stage, discharge, and water quality of streams, and stage and contents of lakes and reservoirs. This report contains discharge records for 101 gaging stations; stage for 10 gaging stations; stage and contents for 16 lakes and reservoirs; water quality for 18 continuous stations and 114 periodic stations; and peak stage and discharge only for 96 crest-stage partial-record stations and 15 miscellaneous sites. These data represent that part of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Georgia.

Records of discharge and stage of streams, and contents or stage of lakes and reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface-Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and then in a 5-year series for 1961-65 and 1966-70. Records of chemical quality, water temperatures, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1935 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

For water years 1961 through 1974, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1974 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1975 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this volume is identified as "U.S. Geological Survey Water-Data Report GA-78-1." For archiving and general distribution, the reports for water years 1971-74 are also identified as water-data reports. These water-data reports are for sale, in paper copy or in microfiche by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

COOPERATION

The U.S. Geological Survey and organizations of the State of Georgia had cooperative agreements for the systematic collection of streamflow records since 1896, and for water-quality records since 1937. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

Georgia Department of Natural Resources, Joe D. Tanner, Commissioner, through the Geologic and Water Resources Division, Sam Pickering, Jr., Director, and through the Division of Environmental Protection, J. Leonard Ledbetter, Director.

Georgia Department of Transportation, Thomas D. Moreland, Commissioner.

Assistance in the form of funds and/or services was given by the following Federal agencies:

Corps of Engineers, U.S. Army
Environmental Protection Agency
Federal Highway Administration, U.S. Department of Transportation
Tennessee Valley Authority
National Weather Service, NOAA, U.S. Department of Commerce

The following organizations aided in collecting records:

Georgia Power Company
Alabama Power Company
Crisp County Power Commission
Bibb County
DeKalb County
Macon-Bibb County Water & Sewerage Authority
City of Covington
City of Valdosta

HYDROLOGIC CONDITIONS

Runoff for the year was generally slightly above normal throughout the State except for the central portion, which was slightly below normal. The ratio of yearly runoff to the long-term average for unregulated streams with more than 5 years of streamflow record ranged from about 1.5 at Spring Creek near Iron City in southwest Georgia to about 0.6 at Whitten Creek near Sparta in east-central Georgia.

Monthly mean runoff in the northern portion of the State was well above average in October, November, and January, but was significantly below normal in April, July, and September. In the central portion of the State, monthly mean runoff was generally above normal in November and January and below normal in April, June, July, and September. Streams in south Georgia had well above normal mean monthly runoff for December, January, February, and May and below normal in October, April, July, August, and September.

Heavy rainfall ranging from 4 to 6 inches occurred in north Georgia during the first weekend in November causing locally heavy flooding. On November 6, the Kelly Barnes Lake Dam near Toccoa failed and produced flooding on Toccoa Creek that resulted in 39 deaths and several million dollars of property damage. On January 25 and 26 heavy rains occurred throughout the State. Some areas in the southwest received more than 5 inches of rainfall during this period and peak flows with recurrence intervals of nearly 25 years resulted on Spring Creek and Chickasawhatchee Creek.

During October streams in the south received very little rainfall, but did not reach critically low flows. Streams throughout the State generally receded after May except during August, when local thunderstorm activity replenished those in the central and north portions. September was the driest month statewide, and some streams in the southeast approached low-flow levels equivalent to a 10-year recurrence interval.

Figure 1 on page 25 graphically compares the monthly and yearly flows experienced at three long term representative gaging stations during the 1978 water year to their 1941-1970 monthly and yearly average flows.

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also the table for converting English units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

> Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as the organisms which produce colonies within 24 hours when incubated at 35°C ± 1.0°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.
>
> Fecal coliform bacteria are bacteria that are present in the intestines or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.
>
> Fecal streptococcal bacteria are bacteria found also in intestines of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies within 48 hours at 35°C ± 1.0°C on M-enterrococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by micro-organisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as the mass per unit area of volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500°C for 1 hour. The ash mass values of zooplankton and phytoplankton are expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 60°C for zooplankton and 105°C for periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry mass values are expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass, and represents the actual mass of the living matter. The organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Bottom material: See Bed material.

Cells/volume refers to the number of cells of any organisms which is counted by using a microscope and grid or counting cell. Many plankton organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters (mL) or liters (L).

Cfs-day is the volume of water represented by flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, about 646,000 gallons or 2,447 cubic meters.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water, and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with natural water color or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/s, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved is that material in a representative water sample which passes through a 0.45 um membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river above the specified point. Figures of drainage area given herein include all closed basins, or noncontribution areas, within the area unless otherwise noted.

Drainage basin is a part of the surface of the earth that is occupied by a drainage system, which consists of a surface stream or a body of impounded surface water together with all tributary surface streams and bodies of impounded surface water.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the more general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Micrograms per gram (µg/g) is a unit expressing the concentration of a chemical element as the mass (micrograms) of the element sorbed unit mass (gram) of sediment.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represent the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Partial-record station is a particular site where limited streamflow and/or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle-size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods.

Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay..........	0.00024 - 0.004	Sedimentation
Silt..........	.004 - .062	Sedimentation
Sand..........	.062 - 2.	Sedimentation or sieve
Gravel........	2.0 - 64.0	Sieve

The particle-size distribution given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Pesticides are chemical compounds used to control undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Insecticides and herbicides, which control insects and plants, respectively, are the two categories reported.

Picocurie (PC, pCi) is one trillionth (1×10^{12}) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers.

Phytoplankton is the plant part of the plankton. They are usually microscopic and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment, and are commonly known as algae.

Blue-green algae are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells/mL of sample.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algal mats or floating "moss" in lakes. Their concentrations are expressed as number of cells/mL of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column, and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Runoff in inches (IN, in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characterisitics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that passes a section in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per limit of time, flowing in a channel.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Surface area of a lake is that area outlined on the latest U.S.G.S. topographic map as the boundary of the lake and measured by a planimeter in acres. In localities not covered by topographic maps, the areas are computed from the best maps available at the time planimetered. All areas shown are those for the stage when the planimetered map was made.

Surficial bed material is that part (0.1 to 0.2 ft) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 µm membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 um membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Tons per day is the quantity of substance in solution or suspension that passes a stream section during a 24-hour day.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

> Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

WRD is used as an abbreviation for "Water-Resources Data" in the REVISED RECORDS paragraph to refer to State annual basic-data reports published before 1975.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indentation represents one rank. This downstream order and system of indention shows which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station such as 03041000, which appears just to the left of the station name, includes the 2-digit part number "03" plus the 6-digit downstream order number "041000".

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Pesticide program is a network of regularly sampled water-quality stations where samples are collected to determine the concentration and distribution of pesticides in streams where potential contamination could result from the application of the commonly used insecticides and herbicides. Operation of the network is a Federal interagency activity.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Tritium network is a network of stations which has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consists of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observation of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from either direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water-Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by the backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some northern stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents or a table showing the daily contents is given. Tables of daily mean gage heights are included for some streamflow stations and for some reservoir stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging station gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge or contents. The location of the gaging station and the drainage area are obtained from most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage referred to National Geodetic Vertical Datum and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS."

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS." For reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. In addition, the median of yearly mean discharges is given for stream-gaging stations having 10 or more complete years of record if the median differs from the average by more than 10 percent. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge (or contents) is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge (or contents), it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas or if the average annual rainfall over the drainage basin is usually less than 20 inches. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharge are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents. For some reservoirs, a table showing daily contents or stage is given. A skeleton table of capacity at given stages is published for all reservoirs for which records are published on a daily basis, but is not published for reservoirs for which only monthly data are given.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations.

Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversion, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as observation of water temperatures, discharge measurements, gage-height records, and rating tables is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and examination of data

Surface-water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentrations of solute at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, published records consist of daily maximum and minimum values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. Mean values and more detailed records (hourly values) may be obtained from the district office.

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharge.

At stations where recording instruments are used, mean daily temperatures and/or maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-four manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revisions and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 1200 South Eads Street, Arlington, VA 22202 (authorized agent of the Superintendent of Documents, Government Printing Office). Prices are effective October 1978, but are subject to change.

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

1-D1. Water temperature-influential factors, field measurement, and data presentation, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages. $1.60.

1-D2. Guidelines for collection and field analysis of ground-water samples for selected unstable constituents, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages. $0.85.

2-D1. Application of surface geophysics to ground-water investigations, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages. $1.90.

2-E1. Application of borehole geophysics to water-resources investigations, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages. $1.75.

3-A1. General field and office procedures for indirect discharge measurements, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages. $1.00.

3-A2. Measurement of peak discharge by the slope-area method, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages. $0.35.

3-A3. Measurement of peak discharge at culverts by indirect methods, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages. $0.40.

3-A4. Measurement of peak discharge at width contractions by indirect methods, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages. $1.00.

3-A5. Measurement of peak discharge at dams by indirect methods, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages. $0.35.

3-A6. General procedure for gaging streams, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages. $1.00.

3-A7. Stage measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages. $1.40.

3-A8. Discharge measurements at gaging stations, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages. $1.25.

3-A11. Measurement of discharge by moving-boat method, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages. $1.20.

3-A12. Fluorometric procedures for dye tracing, by J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A12. 1968. 31 pages. $0.35. Not currently available.

3-B1. Aquifer-test design, observation, and data analysis, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages. $0.70.

3-B2. Introduction to ground-water hydraulics, a programmed text for self-instruction, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages. $2.50.

3-C1. Fluvial sediment concepts, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages. $2.50.

3-C2. Field methods for measurement of fluvial sediment, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages. $2.50.

3-C3. Computation of fluvial-sediment discharge, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages. $2.10.

4-A1. Some statistical tools in hydrology, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages. $1.60.

4-A2. Frequency curves, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages. $1.20.

4-B1. Low-flow investigations, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages. $0.65.

4-B2. Storage analyses for water supply, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages. $0.75.

4-B3. Regional analyses of streamflow characteristics, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages. $0.65.

4-D1. Computation of rate and volume of stream depletion by wells, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages. $1.10.

5-A1. Methods for collection and analysis of water samples for dissolved minerals and gases, by Eugene Brown, M. W. Skougstad, and M. J. Fishman: USGS--TWRI Book 5, Chapter A1. 1970. 160 pages. $2.40.

5-A2. Determination of minor elements in water by emission spectroscopy, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages. $0.80.

5-A3. Methods for analysis of organic substances in water, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages. $0.90.

5-A4.* Methods for collection and analysis of aquatic biological and microbiological samples, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages. $20.00.

5-A5.* Methods for determination of radioactive substances in water and fluvial sediments, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS-TWRI Book 5, Chapter A5. 1977. 95 pages. $16.00.

5-C1. Laboratory theory and methods for sediment analysis, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages. $2.10.

7-C1. Finite-difference model for aquifer simulation in two dimensions with results of numerical experiments, by P. C. Trescott, G. F. Pinder, and S. P. Lawson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages. $2.30.

8-A1. Methods of measuring water levels in deep wells, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages. $0.70.

8-B2. Calibration and maintenance of vertical-axis type current meters, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages. $1.10.

* These publications are available ONLY from Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. They are in looseleaf format and are subscription items. Additional supplements will be issued to subscribers at no extra cost. Checks should be made payable to Superintendent of Documents. Requester should emphasize to Superintendent of Documents that this is a subscription item.

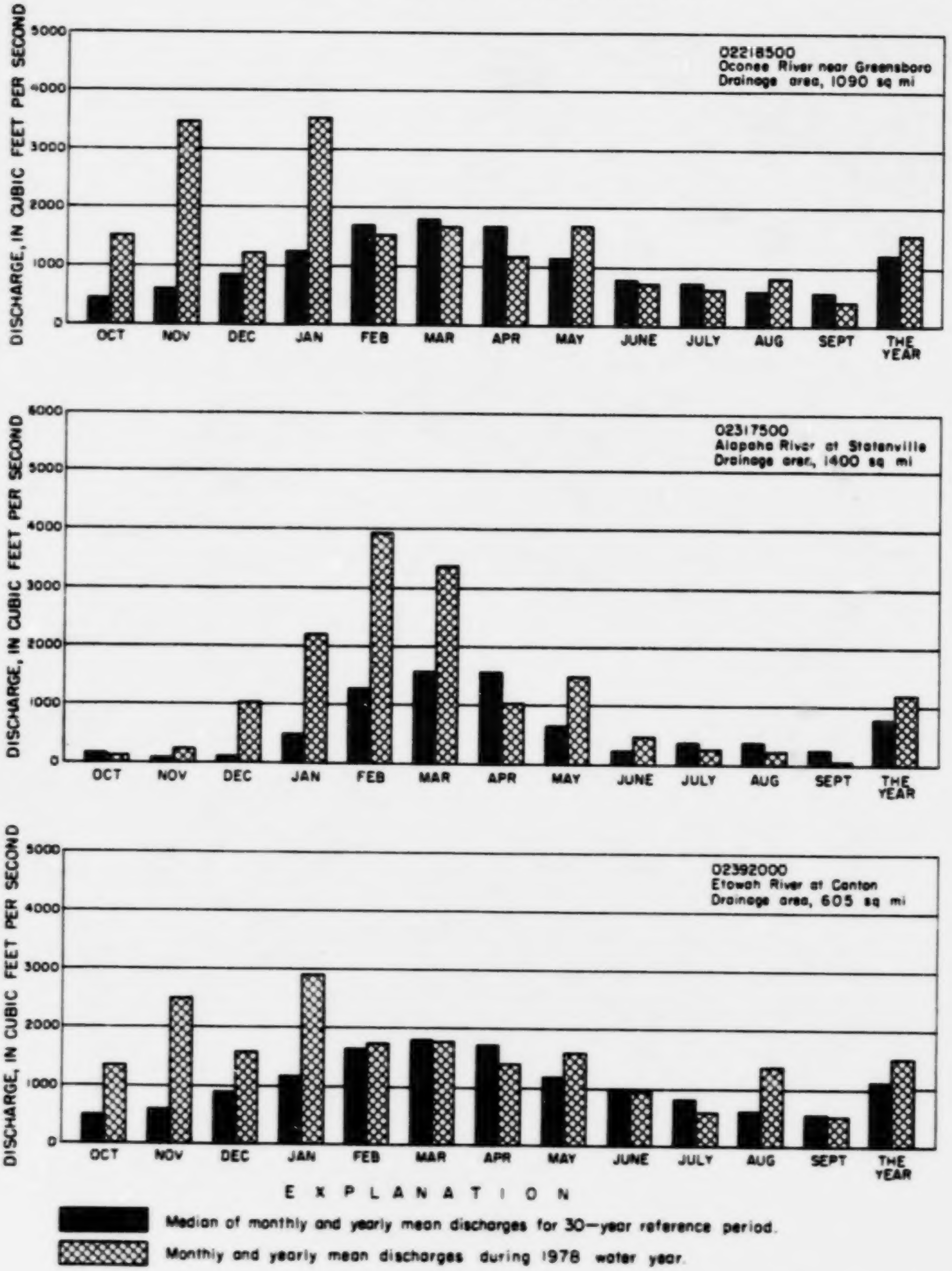
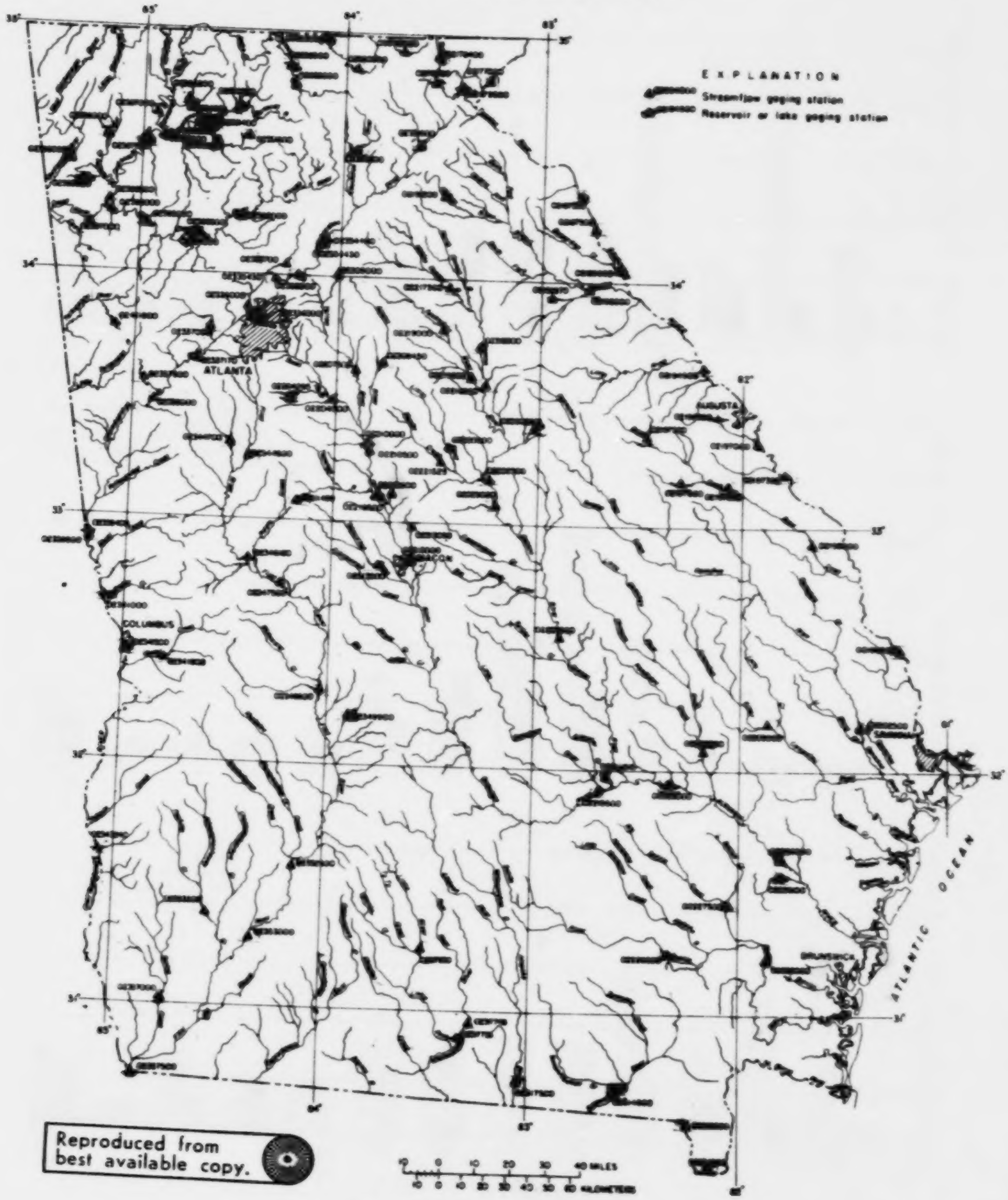


Figure 1.—Comparison of discharge at three long-term representative gaging stations during 1978 water year with median discharge for 30-year reference period.


35°
85°
84°
83°
EXPLANATION
Streamflow gaging station
Reservoir or lake gaging station
34°
ATLANTA
AUGUSTA
82°
33°
MACON
COLUMBUS
32°
81°
ATLANTIC OCEAN
BRUNSWICK
31°
10 0 10 20 30 40 MILES
10 0 10 20 30 40 50 60 KILOMETERS

Reproduced from
best available copy.

Figure 2.—Location of gaging stations.

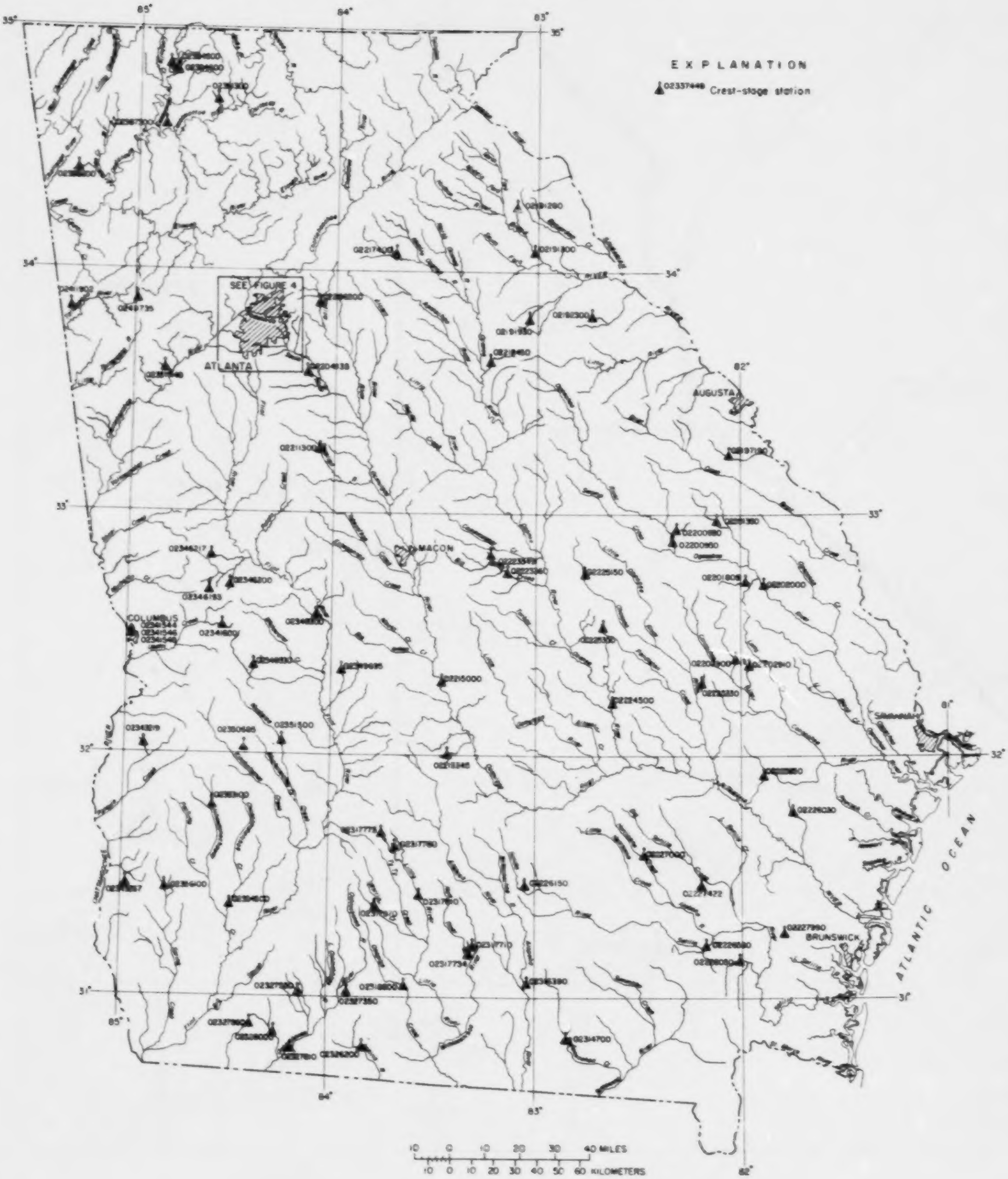

EXPLANATION
02337448 Crest-stage station
SEE FIGURE 4
ATLANTA
AUGUSTA
MACON
COLUMBUS
BRUNSWICK
ATLANTIC OCEAN
35°
34°
33°
32°
31°
85°
84°
83°
82°
81°
10 0 10 20 30 40 MILES
10 0 10 20 30 40 50 60 KILOMETERS

Figure 3.—Location of crest stage partial-record stations.

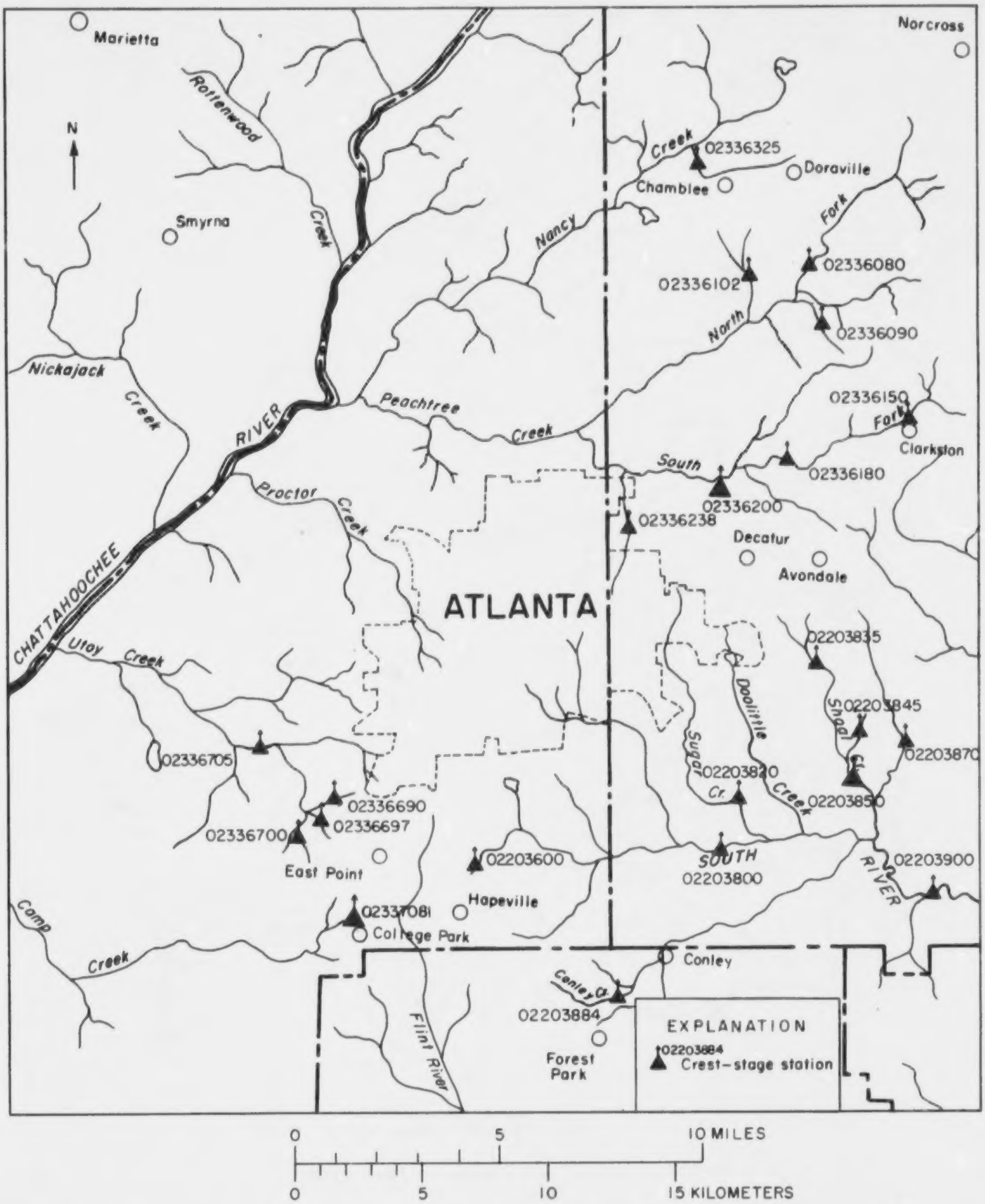

Marietta
Norcross
Rottenwood Creek
N
Smyrna
Creek
02336325
Doraville
Chamblee
Nancy Creek
North Fork
02336102
02336080
02336090
Nickajack Creek
CHATTAHOOCHEE RIVER
Peachtree Creek
02336150
Fork
Clarkston
South
02336180
02336200
02336238
Proctor Creek
Decatur
Avondale
ATLANTA
Utoy Creek
02203835
Doolittle Creek
Shoal Cr.
02203845
02203870
02336705
Sugar Cr.
02203820
02203850
02336690
02336697
02336700
East Point
02203600
SOUTH RIVER
02203800
02203900
02337081
Hapeville
College Park
Camp Creek
Conley
Conley Cr.
02203884
Forest Park
Flint River
EXPLANATION
02203884
Crest-stage station
0 5 10 MILES
0 5 10 15 KILOMETERS

Figure 4—Location of crest stage partial-record stations in Atlanta metropolitan area.

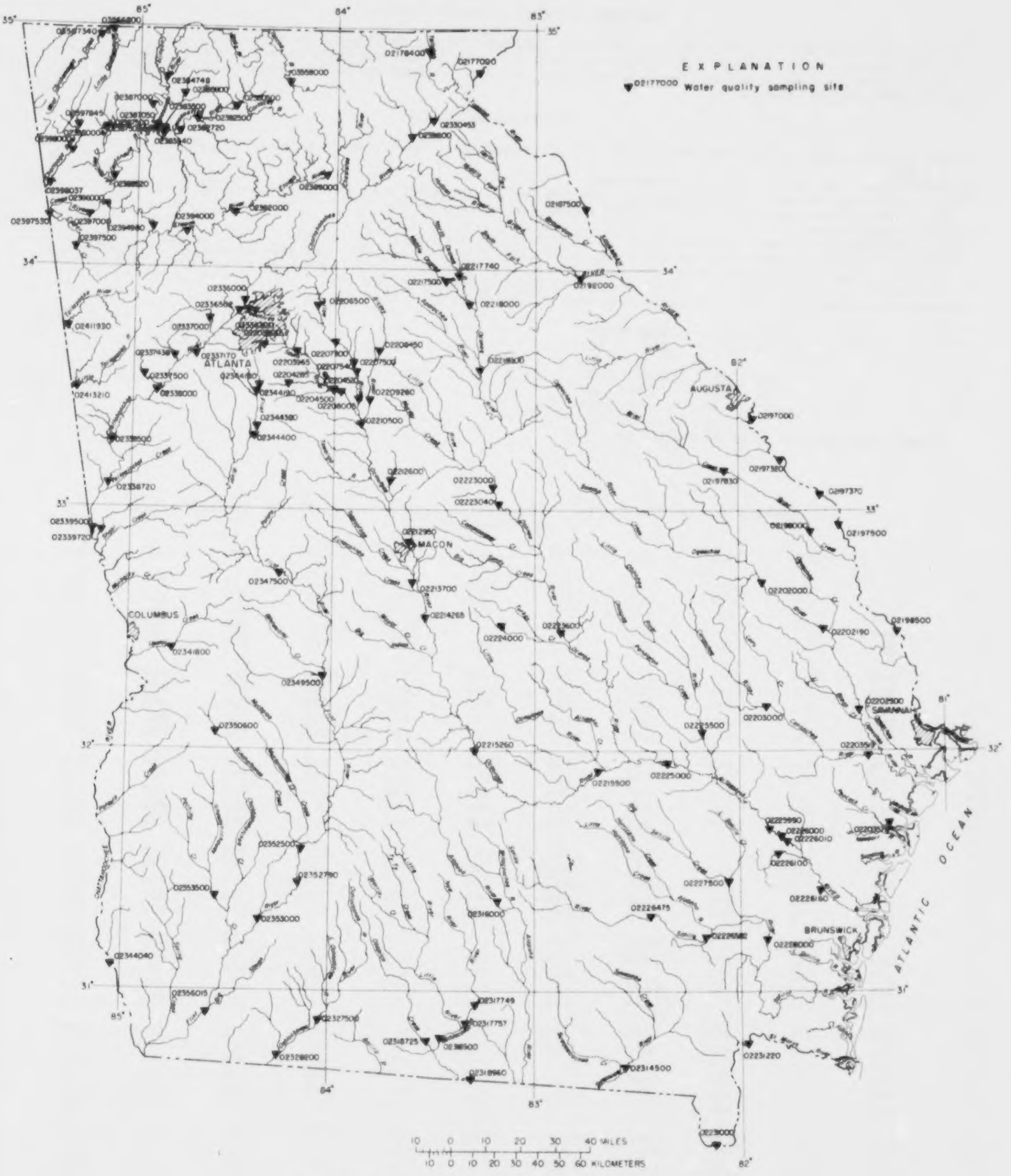

EXPLANATION
02177000 Water quality sampling site
35°
85°
84°
83°
34°
33°
32°
31°
82°
81°
ATLANTA
AUGUSTA
MACON
COLUMBUS
SAVANNAH
BRUNSWICK
ATLANTIC OCEAN
02177000
02178400
02397340
02330450
02191000
02187500
02217740
02217500
02192000
02218000
02336000
02206500
02411930
02197000
02212600
02223000
02223040
02339500
02339720
02212950
02347500
02213700
02214265
02224000
02223600
02341800
02349500
02350600
02215260
02225500
02203000
02202500
02215500
02225000
02352500
02352780
02353500
02353000
02316000
02226475
02227500
02226500
02228000
02344040
02356015
02317745
02327500
02317757
02318725
02318500
02329200
02318960
02314500
02231220
02231000
10 0 10 20 30 40 MILES
10 0 10 20 30 40 50 60 KILOMETERS

Figure 5.—Location of surface water quality stations.

SAVANNAH RIVER BASIN

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.

LOCATION.--Lat 34°48'50", long 83°18'22", Oconee County, S.C.-Rabun County, Ga., Hydrologic Unit 03060102, on left bank 150 ft (46 m) downstream from bridge on U.S. Highway 76, 2.8 mi (4.5 km) upstream from Stekoa Creek, 7 mi (11.3 km) southeast of Clayton, 9 mi (14.5 km) downstream from War Women Creek, and 9 mi (14.5 km) upstream from confluence with Tallulah River.

DRAINAGE AREA.--207 mi (536 km).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1907 to June 1908, October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1383: 1940-41, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,165.6 ft (355.3 m) National Geodetic Vertical Datum of 1929. May 1907 to June 1908, nonrecording gage at site 400 ft (122 m) upstream at different datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--39 years (1939-78), 657 ft^3/s (18.6 m^3/s), 43.10 in/yr (1,094.7 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft^3/s (821 m^3/s) Aug. 30, 1940, gage height, 13.8 ft (4.206 m), from rating curve extended above 4,700 ft^3/s (133 m^3/s) on basis of slope-area measurements at gage heights 9.9 and 13.2 ft (3.018 and 4.023 m); minimum, 88 ft^3/s (2.49 m^3/s) Oct. 8, 12, 13, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,400 ft^3/s (96.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 22	0200	4540	129	4.58	1.396
Nov. 6	0430	6440	182	5.53	1.686
Jan. 9	0215	4120	117	4.41	1.344
Jan. 26	0200	*7850	222	6.24	1.902
Aug. 7	2030	5050	143	4.88	1.487

Minimum discharge, 208 ft^3/s (5.89 m^3/s) July 23, 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	550	591	1440	810	1350	688	573	437	407	274	349	371
2	1020	595	1150	782	1310	662	551	510	394	325	268	355
3	640	787	991	745	1260	754	536	451	394	271	256	364
4	440	1130	921	720	1210	762	525	649	383	255	275	354
5	360	1340	1250	705	1170	668	516	720	372	247	369	346
6	340	3950	1380	743	1140	646	505	549	361	252	689	344
7	370	2250	1090	733	1090	648	494	512	377	255	3580	329
8	430	1600	988	1460	1070	805	479	850	501	249	2080	329
9	1370	1300	994	2690	1040	991	473	1260	704	250	1220	318
10	730	1150	924	1460	1010	1520	470	803	451	252	1110	307
11	470	1030	868	1230	980	1130	494	663	390	278	896	486
12	440	962	831	1120	955	930	530	598	385	253	900	352
13	400	898	810	1090	978	819	496	1030	432	239	899	312
14	380	853	984	1030	951	909	468	891	384	240	714	545
15	370	809	1070	963	894	919	452	741	367	275	775	457
16	360	797	917	905	861	793	445	667	363	371	759	343
17	360	1210	866	1170	844	732	443	616	352	295	635	300
18	350	969	989	1200	833	703	507	594	341	248	549	277
19	350	829	894	1120	810	666	789	576	334	236	510	269
20	350	771	844	1820	785	640	562	541	438	230	505	263
21	358	745	803	1370	759	621	493	516	514	222	518	252
22	348	760	761	1180	734	624	468	496	385	214	459	246
23	337	991	737	1090	721	631	451	531	358	222	440	269
24	326	991	746	1070	704	607	445	563	336	270	429	317
25	640	874	1190	2640	690	651	487	494	319	324	406	328
26	2530	799	955	4410	680	841	503	460	312	244	398	274
27	1170	748	853	2220	649	760	456	489	302	261	403	258
28	855	846	808	1810	668	682	431	461	290	303	418	247
29	733	953	777	1620	---	638	419	527	280	249	381	238
30	665	893	810	1510	---	612	416	487	274	220	370	235
31	612	---	866	1430	---	588	---	434	---	264	385	---
TOTAL	18654	32421	29507	42846	26146	23640	14877	19116	11500	8088	21945	9685
MEAN	602	1081	952	1382	934	763	496	617	383	261	708	323
MAX	2530	3950	1440	4410	1350	1520	789	1260	704	371	3580	545
MIN	326	591	737	705	649	588	416	434	274	214	256	235
CFSM	2.91	5.22	4.60	6.68	4.51	3.69	2.40	2.98	1.85	1.26	3.42	1.56
IN.	3.35	5.83	5.30	7.70	4.70	4.25	2.67	3.44	2.07	1.45	3.94	1.74

CAL YR 1977 TOTAL 293606 MEAN 804 MAX 6500 MIN 215 CFSM 3.88 IN 52.76
WTR YR 1978 TOTAL 258425 MEAN 708 MAX 4410 MIN 214 CFSM 3.42 IN 46.44

02177000 CHATTOOGA RIVER NEAR CLAYTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 13...	1545	400	7.0	14.0	14.0	9.8
NOV 08...	1130	1600	6.6	21.5	11.0	11.1
DEC 14...	1310	940	6.9	13.5	7.5	10.3
JAN 11...	1315	1210	7.3	.0	1.0	13.6
FEB 08...	1215	1070	6.4	3.0	2.5	13.2
APR 11...	1130	470	7.0	17.0	16.5	9.1
MAY 18...	1045	600	6.5	19.0	14.5	9.7
JUN 15...	1150	364	6.8	21.5	21.0	8.2
JUL 11...	1230	285	7.0	28.0	23.0	8.0
AUG 16...	1540	766	6.7	27.5	22.0	9.2
SEP 13...	1250	312	6.2	29.0	22.5	8.4

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 13...	13	4	<5	<.1	40	--	1	<.04	<.04	<.10	<.02	3.0
NOV 08...	11	10	3	.2	90	--	10	.02	<.02	.11	<.02	2.0
DEC 14...	--	7	5	.7	90	--	4	.02	.02	<.02	<.02	1.0
JAN 11...	11	5	15	.6	<30	--	11	.04	<.02	<.10	.05	<1.0
FEB 08...	12	5	4	.7	40	--	2	.05	<.02	<.10	<.02	1.0
APR 11...	13	6	8	.5	40	--	3	.18	.03	.12	.05	2.5
MAY 18...	13	6	<5	.4	150	--	6	<.02	<.02	<.10	<.02	<1.0
JUN 15...	14	5	5	1.0	40	--	5	.03	<.02	.10	<.02	1.0
JUL 11...	15	6	--	.4	795	7	4	.03	.03	--	<.02	2.0
AUG 16...	14	11	--	.1	230	5	6	<.02	<.02	--	<.02	3.0
SEP 13...	12	7	--	.7	<30	4	<1	<.02	<.02	--	<.02	<1.0

02178400 TALLULAH RIVER NEAR CLAYTON, GA.
(Hydrologic bench-mark station)

LOCATION.—Lat 34°53'25", long 83°31'50", Rabun County, Hydrologic Unit 03060102, on right bank 100 ft (30 m) downstream from county highway bridge, 120 ft (37 m) downstream from Persimmon Creek, 8 mi (12.9 km) upstream from Burton Dam, and 10.3 mi (16.6 km) west of Clayton.
DRAINAGE AREA.—56.5 mi^2 (146 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—July 1964 to current year.
GAGE.—Water-stage recorder. Datum of gage is 1,868.93 ft (569.65 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).
REMARKS.—Records good.
AVERAGE DISCHARGE.—14 years, 205 ft^3/s (5.81 m^3/s), 49.27 in/yr (1,251.5 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 8,500 ft^3/s (241 m^3/s) May 28, 1973, gage height, 12.00 ft (3.658 m); minimum discharge, 45 ft^3/s (1.27 m^3/s) Sept. 25, 26, 1964.
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 1,200 ft^3/s (34.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 25	2030	1540	43.6	5.27	1.606	Jan. 25	2130	2500	70.8	6.51	1.984
Nov. 5	2400	*4090	116	8.24	2.512	Aug. 7	1345	2090	59.2	6.12	1.865
Jan. 8	1800	1800	51.0	5.65	1.722	Aug. 9	1545	2680	75.9	6.71	2.045

Minimum discharge, 55 ft^3/s (1.56 m^3/s) July 30, 31.

ANNUAL PEAK DISCHARGES NOT PREVIOUSLY PUBLISHED.—

Date	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 4, 1964	7440	211	11.12	3.389	May 28, 1973	8500	241	12.00	3.658
Feb. 13, 1966	5140	146	9.17	2.795	Dec. 26, 1973	4660	231	8.74	2.664

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	87	128	319	217	328	166	156	130	106	66	76	84
2	117	158	277	205	314	168	153	133	103	61	58	83
3	94	193	248	193	295	203	149	122	103	60	79	83
4	84	484	244	185	277	184	145	191	99	58	110	79
5	81	949	490	180	268	173	143	158	95	58	97	78
6	78	1830	408	198	256	171	140	142	97	59	116	86
7	76	754	323	193	244	172	137	163	101	57	971	76
8	195	484	284	751	238	249	134	251	184	56	522	76
9	464	378	317	762	232	308	131	323	175	57	1110	73
10	219	321	279	448	225	456	138	224	125	59	575	71
11	165	273	257	362	217	326	165	189	115	55	356	82
12	140	242	240	324	212	289	149	173	120	54	306	74
13	124	220	229	303	224	262	141	234	120	55	243	73
14	116	205	301	275	207	343	127	186	103	56	203	73
15	109	192	268	252	196	295	125	174	100	162	199	74
16	106	210	246	238	193	263	123	165	95	96	177	73
17	100	351	240	356	190	242	122	167	91	69	154	69
18	96	258	285	297	188	224	171	145	89	64	139	66
19	93	227	249	356	183	213	185	137	88	62	142	63
20	90	213	238	446	177	202	150	132	93	63	155	62
21	88	222	222	343	177	202	141	127	87	60	146	61
22	87	218	208	302	170	193	133	121	82	59	125	63
23	85	274	198	277	168	175	129	163	79	59	115	69
24	84	253	213	286	166	175	127	151	76	61	108	77
25	406	233	388	985	165	178	149	128	77	60	103	70
26	454	216	282	1150	161	210	140	127	75	59	99	65
27	231	200	251	639	155	184	130	131	72	69	102	63
28	182	262	231	486	167	176	125	126	68	69	100	61
29	158	258	216	423	---	170	123	120	66	59	92	60
30	143	257	235	381	---	164	125	115	66	56	89	59
31	134	---	223	351	---	160	---	110	---	64	87	---
TOTAL	4686	10463	8409	12164	5993	6896	4206	4958	2950	2002	6948	2146
MEAN	151	349	271	392	214	222	140	160	98.3	64.6	224	71.5
MAX	464	1830	490	1150	328	456	185	323	184	162	1110	86
MIN	76	128	198	180	155	160	122	110	66	54	58	59
CFSM	2.67	6.18	4.80	6.94	3.79	3.93	2.48	2.83	1.74	1.14	3.97	1.27
IN.	3.09	6.89	5.54	8.01	3.95	4.54	2.77	3.26	1.94	1.32	4.57	1.41

CAL YR 1977 TOTAL 79127 MEAN 217 MAX 1840 MIN 54 CFSM 3.84 IN 52.10
WTR YR 1978 TOTAL 71821 MEAN 197 MAX 1830 MIN 54 CFSM 3.49 IN 47.29

02178400 TALLULAH RIVER NEAR CLAYTON, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—October 1967 to September 1968, December 1969 to current year.
PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: September 1964 to current year.
EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: Maximum, 28.0°C July 28, 1966; minimum, 0.0°C on several days during most years.
EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURES: Maximum, 25.0°C July 4, 22, 23; minimum, 0.5°C Jan. 11.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
JUN 28...	1130	66	6.7	21.0	8.8
SEP 26...	1100	64	6.7	18.0	9.2

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN 28...	18	2	4	0	.9	.5	1.5	.7	10	0	8	.6
SEP 26...	20	10	6	0	1.3	.6	1.8	.6	10	0	8	1.0

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
JUN 28...	.9	.0	9.6	22	.06	.27	.00	.00	.04	.04	.00	.00
SEP 26...	.6	.0	11	23	.05	.22	.00	.00	.04	.05	.00	.00

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
JUN 28...	.00	.29	.12	.29	.17	.12	.33	1.5	.02	.00	.00	.00
SEP 26...	.00	.24	—	.24	.00	--	.28	1.2	.01	.01	.00	.00

DATE	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
JUN 28...	.00	50	0	0	5	20	10	<.5	0	40	9.8	7.4
SEP 26...	.00	30	0	0	1	190	20	<.5	0	10	1.0	.5

02178400 TALLULAH RIVER NEAR CLAYTON, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	18.0	16.0	13.5	10.5	11.0	9.5	6.5	5.5	4.5	3.0	8.0	4.0
2	20.0	17.0	13.5	11.5	9.0	7.5	5.5	3.0	6.5	4.5	5.0	2.0
3	17.5	14.0	14.5	13.5	9.0	6.5	3.5	1.5	5.5	4.5	4.5	2.0
4	15.5	11.5	14.5	14.0	11.0	9.0	4.0	1.5	5.0	3.5	6.0	3.0
5	16.0	11.5	15.0	14.5	11.5	10.5	5.5	2.5	5.5	4.0	5.5	1.5
6	16.0	12.5	14.5	14.0	10.0	5.0	6.5	5.5	4.5	1.5	7.0	2.5
7	15.5	12.5	13.5	13.0	4.5	3.0	7.5	6.0	3.0	1.0	6.0	4.5
8	14.0	14.0	14.0	13.0	5.0	3.5	8.5	7.5	4.0	1.5	5.5	5.0
9	16.0	13.5	13.5	12.5	6.5	4.0	7.5	2.0	5.0	2.5	6.0	5.5
10	13.5	11.5	13.5	8.5	4.0	2.5	2.0	1.0	5.5	3.0	8.0	5.5
11	13.5	11.5	9.0	7.5	4.0	2.5	3.0	.5	5.5	2.5	8.0	4.5
12	15.0	12.5	8.0	6.5	4.5	3.0	3.5	2.5	6.5	3.0	9.5	6.5
13	12.0	10.5	7.0	5.0	7.0	4.5	5.0	3.0	5.5	5.0	9.0	6.0
14	12.0	9.0	7.5	5.0	8.5	7.0	4.5	2.5	6.5	4.5	11.5	8.5
15	12.5	8.5	8.0	5.5	8.5	7.5	3.0	2.0	6.5	3.5	11.0	7.5
16	12.0	10.0	10.0	6.5	8.5	6.5	3.5	1.5	8.0	5.0	10.5	7.5
17	11.5	8.5	12.0	10.0	9.0	7.5	4.5	3.0	8.0	5.5	7.5	5.0
18	12.0	8.0	9.5	8.0	9.0	7.5	6.0	4.5	7.5	6.5	7.5	3.5
19	12.5	9.5	9.0	6.5	8.0	6.0	5.5	4.5	8.0	5.0	10.0	4.0
20	12.0	8.5	9.5	8.0	9.0	7.5	5.5	4.5	6.5	4.5	11.0	6.5
21	12.5	9.0	10.5	9.5	7.5	4.0	4.0	3.0	4.5	2.5	11.0	8.0
22	13.0	9.0	11.5	10.5	4.5	3.0	5.0	3.0	4.5	1.0	12.5	8.5
23	12.5	9.5	12.5	11.5	5.5	3.0	5.0	3.0	3.5	1.5	12.5	8.0
24	13.0	10.0	12.5	11.5	7.0	5.5	5.0	3.5	6.5	2.5	12.5	8.5
25	13.5	12.5	12.0	10.0	7.5	5.0	6.5	5.0	8.0	3.0	11.5	10.0
26	15.0	13.5	9.5	4.5	4.5	2.5	6.5	3.0	7.5	4.5	10.5	9.0
27	14.5	12.5	6.0	4.0	3.0	1.5	4.0	2.5	6.5	2.5	10.5	7.0
28	15.0	13.0	8.5	6.0	2.5	1.5	3.5	2.0	5.5	3.5	11.5	6.0
29	15.0	13.0	10.0	8.5	4.0	1.0	3.0	1.5	---	---	13.0	7.5
30	14.5	13.5	11.0	10.0	5.0	3.5	3.5	1.0	---	---	13.5	8.5
31	13.0	12.0	---	---	6.5	5.0	4.0	2.5	---	---	14.0	8.0
MONTH	20.0	8.0	15.0	4.0	11.5	1.0	8.5	.5	8.0	1.0	14.0	1.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.0	9.5	13.5	11.5	20.5	15.5	24.0	18.5	24.0	19.0	22.0	18.5
2	15.0	10.0	17.0	11.5	21.0	16.0	24.5	19.5	24.0	19.5	20.5	18.5
3	15.5	11.0	13.0	11.0	20.0	17.0	24.5	20.0	23.0	20.0	22.0	19.0
4	16.5	11.0	11.5	10.0	21.5	16.0	25.0	19.0	20.5	19.5	21.0	17.0
5	18.0	12.5	15.5	11.0	21.0	15.5	23.0	19.5	22.0	19.0	21.0	17.5
6	15.0	12.0	17.5	10.5	19.5	15.5	22.0	19.0	21.0	19.5	22.0	17.5
7	18.5	12.5	14.5	12.5	19.5	17.0	23.0	18.5	19.5	17.5	20.5	17.5
8	17.0	11.0	13.0	11.5	17.5	15.5	22.5	19.0	19.0	17.0	22.0	17.0
9	17.5	11.5	16.0	11.5	20.0	15.0	23.5	18.5	17.5	16.0	23.0	17.5
10	17.5	12.5	15.5	11.5	20.5	16.5	23.5	19.0	17.5	16.0	22.0	18.0
11	14.5	12.5	15.5	10.5	19.5	16.5	24.5	19.5	17.5	16.5	21.5	18.0
12	14.5	10.5	13.0	11.5	21.5	17.0	23.5	19.5	19.0	16.5	21.0	17.5
13	16.5	11.5	15.5	11.0	22.0	17.0	20.5	19.5	19.5	16.5	22.5	17.5
14	16.0	9.5	12.5	10.5	20.5	15.0	24.0	19.0	20.0	16.5	19.5	18.5
15	16.0	10.0	12.0	10.0	20.0	15.5	21.0	18.5	19.0	17.5	20.0	18.5
16	16.5	10.5	11.5	9.0	21.5	16.5	21.5	18.0	20.0	17.0	22.5	18.0
17	16.0	12.0	15.0	9.5	21.5	16.5	23.0	17.5	21.5	17.5	23.0	18.0
18	13.5	10.5	16.0	11.0	21.5	16.5	23.5	18.5	21.0	18.0	23.5	19.0
19	15.0	10.5	18.0	11.5	21.5	17.0	22.5	18.5	21.0	18.0	23.0	19.0
20	11.5	9.0	19.0	12.5	19.5	17.5	24.0	19.0	21.0	18.0	23.5	19.0
21	11.5	8.0	19.0	13.5	21.5	16.5	24.0	18.5	21.0	18.0	23.5	20.0
22	13.0	6.5	19.5	14.0	22.5	17.0	25.0	19.0	22.5	18.5	23.0	20.0
23	11.5	8.0	18.5	15.0	22.5	17.0	25.0	19.5	22.5	19.0	20.5	19.0
24	15.0	9.5	20.0	14.5	22.0	17.0	23.0	20.0	22.0	18.5	19.5	18.0
25	13.5	11.0	19.5	15.0	23.0	17.5	22.5	19.5	21.5	18.0	20.0	17.0
26	11.5	10.0	19.5	15.5	22.5	18.0	24.0	18.5	20.0	19.0	19.5	17.5
27	14.5	8.5	19.5	16.0	24.0	18.5	21.0	19.5	20.5	18.0	19.5	16.0
28	14.5	8.5	17.5	16.0	24.5	18.5	24.0	18.5	22.0	18.5	19.0	16.0
29	15.0	9.5	20.0	15.5	24.0	19.0	24.5	19.0	21.5	18.5	19.0	16.0
30	13.0	10.5	20.0	16.0	23.5	19.0	24.5	19.0	22.5	19.0	16.5	15.5
31	---	---	21.0	15.5	---	---	24.0	20.0	23.0	19.5	---	---
MONTH	18.5	6.5	21.0	9.0	24.5	15.0	25.0	17.5	24.0	16.0	23.5	15.5

02187500 SAVANNAH RIVER NEAR IVA, S.C.

LOCATION.--Lat 34°15'20", long 82°44'42", Anderson County, S.C.-Elbert County, Ga., Hydrologic Unit 03060103, on left bank at downstream side of bridge on State Highway 184, 0.5 mi (0.8 km) upstream from Little Generostee Creek, 5.8 mi (9.3 km) southwest of Iva, and at mile 296.5 (477.1 km).

DRAINAGE AREA.--2,231 mi^2 (5,778 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1949 to current year. Monthly discharge only for some periods, published in WSP 1303.

GAGE.--Water-stage recorder. Datum of gage is 432.26 ft (131.75 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good. Flow regulated by Lake Burton, Mathis Reservoir and Hartwell Lake. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, and 02187250.)

AVERAGE DISCHARGE.--29 years, 4,471 ft^3/s (127 m^3/s), 27.21 in/yr (691.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,400 ft^3/s (1,540 m^3/s) Mar. 12, 1952, gage height, 12.74 ft (3.883 m); minimum, 75 ft^3/s (2.12 m^3/s) Oct. 24, 1961; minimum daily, 78 ft^3/s (2.21 m^3/s) Oct. 23, 24, 1961.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31,300 ft^3/s (886 m^3/s) Jan. 25, gage height, 8.47 ft (2.582 m); minimum, 145 ft^3/s (4.11 m^3/s) Oct. 24, Sept. 24; minimum daily, 152 ft^3/s (4.30 m^3/s) Oct. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	508	7550	11900	307	7700	8300	720	5440	6870	486	4300	4750
2	581	7180	11900	7590	7730	8600	288	6330	6890	631	5950	536
3	4240	8030	2510	8460	7650	9870	2410	6280	550	1650	5520	824
4	3270	6880	312	10200	2590	1200	7600	7810	499	3550	5710	2480
5	2910	1970	9200	10200	377	337	1820	6590	6600	6020	1670	5210
6	3240	1420	10300	10500	6070	4510	5690	1230	7290	6260	398	5420
7	4480	7230	12800	1430	6640	5100	5910	410	7450	5820	5130	7120
8	657	7770	10800	485	6610	4920	1180	9700	7190	663	6680	8060
9	457	7530	9210	8710	9600	5290	290	8320	7470	620	5040	1870
10	4060	5660	3190	12300	10000	6660	3320	5610	956	5900	3250	1130
11	3170	5550	983	9830	2930	1260	4400	5860	348	5940	2780	5070
12	4330	826	6340	6390	345	593	4380	5840	5410	6060	563	5010
13	5180	238	7380	5260	9460	5350	4410	1250	5680	6040	1300	7170
14	4340	6490	7390	2880	10500	5750	4380	385	3870	6070	4600	5260
15	678	7130	8170	424	10400	5960	1340	6250	5550	724	4870	5030
16	165	7120	8480	7840	11800	5810	283	6890	5600	1110	4860	2980
17	5430	7140	1360	8890	12300	5800	3490	6890	510	4830	5510	1160
18	4960	6840	289	9820	3620	930	4420	6890	486	3610	6370	8610
19	4040	2530	6060	9880	392	352	4680	11200	4030	6810	561	6040
20	4080	289	8290	11000	9440	5230	4530	10700	7010	6460	833	3910
21	4080	9020	9380	1540	10900	5790	4400	4600	5960	4150	4860	6020
22	687	9960	8140	590	10200	5780	1200	13400	5760	561	4930	4730
23	152	9860	7790	8930	10600	5780	300	11000	4820	811	4830	534
24	5170	3330	917	9740	10100	5280	3740	11000	530	4250	4790	153
25	7290	5850	366	15000	1230	3200	4430	10700	653	4210	5530	4270
26	8770	1310	5590	17200	300	370	4550	10400	5990	4350	481	3070
27	6780	694	8780	15600	7430	2650	4400	1300	6740	4220	978	2910
28	6370	11300	10700	8640	8290	4600	4360	827	9310	7460	4890	1800
29	797	11900	9210	1090	---	2080	917	6670	7340	2520	5500	5780
30	298	11900	9990	6620	---	4510	308	6910	5470	1210	4760	529
31	6750	---	1130	7730	---	4510	---	6870	---	5040	4760	---
TOTAL	107920	180497	207857	235076	195204	136372	94146	203552	142832	118036	122204	117436
MEAN	3481	6017	6705	7583	6972	4399	3138	6566	4761	3808	3942	3915
MAX	8770	11900	12800	17200	12300	9870	7600	13400	9310	7460	6680	8610
MIN	152	238	289	307	300	337	283	385	348	486	398	153
MEAN†	5696	5963	5120	10976	4641	5762	3918	6839	3266	1970	4689	2125
CFSM†	2.55	2.67	2.29	4.92	2.08	2.58	1.76	3.07	1.46	0.88	2.10	0.95
IN†	2.94	2.98	2.64	5.67	2.17	2.97	1.96	3.54	1.63	1.02	2.32	1.06

CAL YR 1977 TOTAL 1910581 MEAN 5234 MAX 22600 MIN 152 MEAN† 5236 CFSM† 2.35 IN† 31.90
WTR YR 1978 TOTAL 1861132 MEAN 5099 MAX 17200 MIN 152 MEAN† 5096 CFSM† 2.28 IN† 30.95

† Adjusted for change in contents in Lake Burton, Mathis Reservoir, and Hartwell Lake.

02187500 SAVANNAH RIVER NEAR IVA, S.C.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1962 to September 1967, October 1968 to September 1972.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum daily, 28.0°C Aug. 30, 31, 1970; minimum daily, 3.0°C Jan. 31, 1966.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV 16...	1420	6640	6.9	20.0	18.0	8.2
FEB 08...	1015	19100	6.7	1.0	4.0	--
MAY 17...	1415	9890	6.9	24.0	11.5	11.6
AUG 16...	1245	335	6.7	33.5	16.0	11.4

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 16...	30	7	.9	90	--	.03	.08	<.02	860	350	1.0
FEB 08...	32	7	.4	215	--	.20	<.02	.02	190	<50	2.0
MAY 17...	30	8	<1.0	<30	--	.18	<.02	<.02	80	<50	1.0
AUG 16...	32	6	.6	<30	8	.20	<.02	<.02	3000	130	2.0

02189000 SAVANNAH RIVER NEAR CALHOUN FALLS, S.C.

LOCATION.--Lat 34°04'15", long 82°38'30", Abbeville County, S.C.-Elbert County, Ga., Hydrologic Unit 03060103, on left bank 150 ft (46 m) upstream from bridge on State Highway 72, 1.0 mi (1.6 km) downstream from Seaboard Coast Line Railroad bridge, 1.5 mi (2.4 km) downstream from Rocky River, 3.0 mi (4.8 km) southwest of Calhoun Falls, and at mile 279.7 (450.0 km).

DRAINAGE AREA.--2,876 mi^2 (7,449 km^2).

PERIOD OF RECORD.--August 1896 to August 1898, March 1899 to December 1900, January to December 1903, March 1930 to July 1932, April 1938 to current year. Published as "at Calhoun Falls" 1897-99. Records for January 1901 to December 1902, published in WSP 65, 75, and 83 have been found unreliable, and should not be used. Gage-height records collected at original site 1.0 mi (1.6 km) upstream during 1899-1928 and at present site since 1928 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1303: 1930-32, 1938-39 (monthly runoff). WSP 1433: 1899-1900, 1932, 1940(m), 1946. See also period of record.

GAGE.--Water-stage recorder. Datum of gage is 363.53 ft (110.80 m) National Geodetic Vertical Datum of 1929. Prior to July 1, 1928, nonrecording gage at railroad bridge 1.0 mi (1.6 km) upstream at datum about 369.0 ft (112.47 m) above mean sea level.

REMARKS.--Records good. Flow regulated by Lake Burton, Mathis Reservoir, and Hartwell Lake. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, and 02187250.) Records of chemical analyses for the water years 1970-74 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--43 years (1896-97, 1899-1900, 1930-31, 1938-78), 5,285 ft^3/s (150 m^3/s), 24.96 in/yr (634.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 96,500 ft^3/s (2,730 m^3/s) Aug. 13, 1940, gage height, 11.52 ft (3.511 m), from rating curve extended above 50,000 ft^3/s (1,420 m^3/s), by velocity-area studies; minimum daily, 300 ft^3/s (8.50 m^3/s) Nov. 5, 1961.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 25, 1908 reached a stage of 28.2 ft (8.60 m) at original site and datum, from records of National Weather Service, discharge, 144,000 ft^3/s (4,080 m^3/s), from rating curve extended above 14,000 ft^3/s (396 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 45,000 ft^3/s (1,270 m^3/s) Jan. 26, gage height, 7.16 ft (2.182 m); minimum daily, 354 ft^3/s (10.0 m^3/s) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2480	8620	13200	1150	9190	9390	3030	5240	7350	2940	4370	5280
2	1170	8200	13100	4760	9130	9420	980	7150	7350	687	5220	3110
3	3350	8630	6190	9380	9080	11400	2340	7150	2910	917	5950	775
4	4610	8290	1370	10400	6210	5860	9770	8580	616	2250	6170	1410
5	2740	4270	6610	11100	1800	1100	7300	7850	4630	6170	4260	4600
6	3400	4670	11500	11600	4570	3240	6400	4120	7700	6490	1210	6020
7	4200	6110	13900	6660	7710	5840	6400	1080	8060	6260	4340	7640
8	2610	8910	12700	1560	7690	5940	4880	7150	8320	3640	7240	7700
9	1010	8660	11200	7350	9430	6420	967	11600	8750	558	6130	5070
10	2300	7310	7100	12800	11800	10200	1510	6860	3720	4330	3970	2090
11	4870	6460	1860	11600	6680	5060	4680	6670	1180	5950	3540	3880
12	3340	4100	5620	8030	1700	1680	4610	6540	4250	6540	2620	5440
13	5130	985	9750	6810	6600	4670	4770	3640	6220	6490	1530	6370
14	5090	4250	9800	6470	11700	6960	4710	1130	4760	6490	3280	7390
15	3620	7830	9740	1890	11600	6910	4100	4590	5510	3720	5580	5720
16	786	7850	9960	5400	12900	6720	880	7600	6130	1680	5620	3920
17	3750	7880	5220	9660	13600	6630	6560	7490	2710	4080	6170	3030
18	6460	7900	945	11700	8120	3450	4170	7490	782	3490	7440	5850
19	3200	5390	4770	11600	1660	1110	4890	11900	2850	6860	3230	7840
20	4310	1300	8990	16100	6270	4120	5010	10900	7650	7490	828	5390
21	4250	5780	9380	7930	12100	6670	4240	7200	6670	4670	3280	6050
22	3110	10800	8990	1980	11900	6630	4080	11300	6260	3160	5680	5780
23	625	12700	9010	6210	11700	6630	905	13200	5240	651	5230	3280
24	3520	5320	4640	11500	11800	6580	3290	11900	3000	2680	5240	730
25	6510	4440	1090	21900	5510	3450	4500	11600	734	4630	6280	2600
26	12700	4130	4440	31100	999	1170	5010	11200	4540	4800	2720	3860
27	9580	1330	7760	21800	4640	4080	5140	4880	6540	4590	779	3310
28	7760	8620	11400	12300	9360	6130	4570	1130	9830	7150	3450	2870
29	3850	13100	10300	5880	---	6860	2540	5510	9480	4630	6320	5170
30	1180	13100	10800	5190	---	6810	930	7390	6130	2570	5140	3290
31	4520	---	5900	9280	---	6810	---	7390	---	4500	5310	---
TOTAL	126031	206935	247235	301090	225449	177940	123162	227430	159872	131063	138127	135465
MEAN	4066	6898	7975	9713	8052	5740	4105	7336	5329	4228	4456	4516
MAX	12700	13100	13900	31100	13600	11400	9770	13200	9830	7490	7440	7840
MIN	625	985	945	1150	999	1100	880	1080	616	558	779	730

CAL YR 1977 TOTAL 2226651 MEAN 6100 MAX 27900 MIN 388 MEAN† 6102 CFSM† 2.12 IN† 28.78
WTR YR 1978 TOTAL 2199799 MEAN 6027 MAX 31100 MIN 558 MEAN† 6024 CFSM† 2.09 IN† 28.37

† Adjusted for change in contents in Lake Burton, Mathis Reservoir, and Hartwell Lake.

02191200 HUDSON RIVER AT HOMER, GA.

LOCATION.—Lat 34°20'15", long 83°29'17", Banks County, Hydrologic Unit 03060104, on downstream side of center pier of bridge on State Highway 15 at Homer, 3.6 mi (5.8 km) upstream from Webb Creek, and 10.8 mi (17.4 km) upstream from Grove Creek.

DRAINAGE AREA.—61.1 mi^2 (158 km^2).

PERIOD OF RECORD.—Annual maximum 1951-58, and occasional low-flow measurements 1942, 1950-52, 1954, 1955. June 1959 to current year.

REVISED RECORDS.—WSP 1904: 1954-55(M). WSP 2104: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 694.61 ft (211.72 m) National Geodetic Vertical Datum of 1929. July 10, 1950, to June 19, 1959, crest-stage gage at site 60 ft (18 m) downstream at same datum.

REMARKS.—Records good except those of no gage-height record, Nov. 23 to Dec. 30, which are fair. Records of chemical analyses for the water year 1970 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.—19 years (1959-78), 111 ft^3/s (3.14 m^3/s), 24.67 in/yr (626.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 7,050 ft^3/s (200 m^3/s) May 29, 1976, gage height, 14.73 ft (4.490 m); minimum daily, 24 ft^3/s (0.68 m^3/s) July 19, 20, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.—A discharge of 8.62 ft^3/s (0.244 m^3/s) was measured on Sept. 23, 1955.

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 800 ft^3/s (22.7 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 9	1745	2170	61.4	10.10	3.079	Jan. 26	1000	2460	69.7	10.46	3.188
Oct. 26	1115	962	27.2	7.68	2.341	Aug. 7	1715	1030	29.2	7.90	2.401
Nov. 6	1015	*3070	86.9	11.27	3.435						

Minimum discharge, 32 ft^3/s (0.91 m^3/s) Sept. 23, gage height, 1.04 ft (0.317 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	86	130	102	144	96	89	112	65	40	45	44
2	288	83	150	96	139	93	89	101	65	39	41	44
3	129	88	120	90	131	118	87	91	63	37	39	45
4	78	144	108	87	124	117	87	105	64	35	42	42
5	66	811	120	85	119	99	87	101	61	35	55	40
6	61	2300	110	119	114	96	86	88	59	37	106	39
7	54	362	95	134	107	95	85	87	60	38	708	38
8	64	229	85	218	106	118	84	103	72	36	189	37
9	1400	178	80	575	108	211	84	196	79	35	133	35
10	426	151	90	207	104	544	83	115	67	46	171	35
11	169	131	80	153	103	213	87	97	62	36	97	45
12	127	118	76	131	102	166	93	91	63	34	87	41
13	106	107	74	133	112	142	97	98	72	35	87	39
14	94	101	90	129	107	147	87	89	59	38	97	37
15	88	96	100	110	100	131	82	87	57	79	78	40
16	80	94	90	101	99	120	81	83	56	99	72	41
17	77	102	80	189	97	112	80	81	55	57	66	37
18	74	93	100	178	99	108	100	81	53	46	62	35
19	72	87	160	163	98	105	266	81	52	42	60	35
20	70	85	110	493	95	104	138	77	54	40	57	34
21	68	84	90	213	95	102	107	74	56	38	55	33
22	66	85	84	160	92	100	97	72	63	38	53	33
23	55	120	80	137	92	96	93	73	53	38	52	33
24	64	100	100	128	93	95	91	78	50	36	52	42
25	176	90	180	717	91	94	100	91	48	37	49	44
26	655	84	120	1710	91	100	102	94	49	66	48	39
27	186	80	100	295	89	94	93	76	48	59	52	37
28	129	90	90	220	95	92	87	74	45	145	54	36
29	110	120	85	180	---	92	86	75	43	59	47	35
30	98	110	100	161	---	91	86	71	41	47	45	34
31	91	---	121	153	---	89	---	69	---	46	44	---
TOTAL	5285	6409	3190	7567	2946	3980	2914	2811	1734	1493	2843	1149
MEAN	170	214	103	244	105	128	97.1	90.7	57.8	48.2	91.7	38.3
MAX	1400	2300	180	1710	144	544	266	196	79	145	708	45
MIN	54	80	74	85	89	89	80	69	41	34	39	33
CFSM	2.78	3.50	1.69	3.99	1.72	2.10	1.59	1.48	.95	.79	1.50	.63
IN.	3.22	3.90	1.94	4.61	1.79	2.42	1.77	1.71	1.06	.91	1.73	.70

CAL YR 1977 TOTAL 43722 MEAN 120 MAX 3060 MIN 28 CFSM 1.96 IN 26.62
WTR YR 1978 TOTAL 42321 MEAN 116 MAX 2300 MIN 33 CFSM 1.90 IN 25.77

02191970 LITTLE MACKS CREEK NEAR LEXINGTON, GA.

(Formerly published as Macks Creek Tributary No. 2 near Lexington)

LOCATION.--Lat 33°56'28", long 82°52'18", Oglethorpe County, Hydrologic Unit, 03060104, on right bank 10 ft (3.0 m) upstream from culvert wingwall on State Highway 77, 11.3 mi (18.2 km) northeast of junction with U.S. Highway 78 in Lexington.
DRAINAGE AREA.--1.77 mi^2 (4.58 km^2).
PERIOD OF RECORD.--Annual maximum, water years 1960-74, December 1974 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 510 ft (155 m), from topographic map.
REMARKS.--Records good.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 853 ft^3/s (24.2 m^3/s) Nov. 5, 1977, gage height, 10.49 ft (3.197 m); minimum, 0.33 ft^3/s (0.009 m^3/s) July 11, 1978.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 100 ft^3/s (2.83 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 5	1915	853	24.2	10.49	3.197	Jan. 25	2100	332	9.40	6.24	1.902

Minimum discharge, 0.33 ft^3/s (0.009 m^3/s) July 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.70	1.1	1.6	1.6	3.3	1.6	1.3	2.0	.71	.51	.64	.57
2	1.8	1.1	1.4	1.5	3.2	1.5	1.3	1.3	.67	.50	.64	.54
3	.83	1.2	1.3	1.5	2.8	1.9	1.3	1.2	.63	.48	.80	.54
4	.76	4.1	1.3	1.6	2.7	1.5	1.2	1.3	.58	.46	1.2	.51
5	.73	149	1.4	1.4	2.6	1.4	1.2	1.2	.58	.48	.84	.54
6	.73	35	1.3	2.0	2.5	1.4	1.2	1.0	.68	.52	2.5	.54
7	.73	9.4	1.2	1.7	2.3	1.4	1.2	1.0	3.7	.49	2.0	.53
8	.76	6.3	1.4	2.4	2.0	1.6	1.1	1.9	4.0	.45	1.5	.55
9	2.7	4.8	1.3	2.3	1.9	5.5	1.1	2.4	2.3	.43	2.3	.54
10	1.1	3.9	1.2	2.0	1.9	8.8	1.1	1.6	1.5	.44	2.1	.55
11	.90	3.3	1.2	2.1	1.8	5.2	1.2	1.4	1.3	.42	1.7	.56
12	.85	2.9	1.2	2.3	1.8	3.9	1.2	1.3	1.3	.47	1.5	.56
13	.81	2.7	1.2	3.0	1.9	3.2	1.8	1.4	1.1	.52	1.2	.55
14	.77	2.6	1.4	3.0	1.8	2.8	1.2	1.2	.97	.71	1.0	.57
15	.71	2.4	1.3	2.4	1.7	2.5	1.1	1.3	.96	1.2	.84	.56
16	.74	2.3	1.3	2.3	1.8	2.2	1.0	1.1	.89	1.9	.82	.52
17	.74	2.5	1.2	4.4	1.6	2.1	1.0	1.1	.77	.79	.80	.52
18	.75	2.2	1.3	3.7	1.6	2.0	1.4	1.4	.74	.71	.76	.54
19	.75	1.9	1.2	10	1.5	1.9	1.3	1.2	.83	.54	.68	.53
20	.75	1.7	1.2	22	1.5	1.9	1.1	1.0	.77	.59	.70	.52
21	.74	1.7	1.2	7.1	1.5	1.8	1.1	.97	1.5	.49	.67	.54
22	.70	1.8	1.1	5.0	1.4	1.7	.98	.96	1.1	.44	.64	.55
23	.70	2.1	1.1	4.0	1.5	1.7	.98	1.0	.84	.43	.63	.61
24	.72	1.6	1.1	4.2	1.4	1.6	1.0	1.0	.69	.45	.62	.54
25	4.3	1.6	1.9	81	1.4	1.5	1.4	.94	.65	1.0	.60	.52
26	5.1	1.4	1.3	23	1.3	1.7	1.3	.91	.69	.73	.57	.48
27	2.0	1.4	1.2	8.6	1.3	1.5	1.1	.86	.62	1.0	1.1	.47
28	1.7	1.5	1.2	6.3	1.5	1.5	1.0	.81	.58	3.9	.80	.49
29	1.6	1.5	1.2	4.7	---	1.4	.98	.76	.56	1.1	.64	.49
30	1.5	1.6	1.9	4.0	---	1.4	.97	.77	.53	.76	.62	.48
31	1.3	---	1.8	3.6	---	1.4	---	.73	---	.72	.60	---
TOTAL	38.97	256.6	40.9	224.7	53.5	71.5	35.11	37.01	32.74	23.63	32.01	16.01
MEAN	1.26	8.55	1.32	7.25	1.91	2.31	1.17	1.19	1.09	.76	1.03	.53
MAX	5.1	149	1.9	81	3.3	8.8	1.8	2.4	4.0	3.9	2.5	.61
MIN	.70	1.1	1.1	1.4	1.3	1.4	.97	.73	.53	.42	.57	.47
CFSM	.71	4.83	.75	4.10	1.08	1.31	.66	.67	.62	.43	.58	.30
IN.	.82	5.39	.86	4.72	1.12	1.50	.74	.78	.69	.50	.67	.34

CAL YR 1977 TOTAL 838.58 MEAN 2.30 MAX 149 MIN .46 CFSM 1.30 IN 17.61
WTR YR 1978 TOTAL 862.68 MEAN 2.36 MAX 149 MIN .42 CFSM 1.33 IN 18.12

02192000 BROAD RIVER NEAR BELL, GA.

LOCATION.--Lat 33°58'27", long 82°46'12", Elbert-Wilkes County line, Hydrologic Unit 03060104, at downstream side of main channel pier of bridge on State Highway 17, 0.5 mi (0.8 km) downstream from Long Creek, 1 mi (1.6 km) south of Belle Crossroads, and 12 mi (19.3 km) southeast of Elberton.
DRAINAGE AREA.--1,430 mi^2 (3,700 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1926 to September 1932, August 1937 to current year. Monthly discharge only for some periods, published in WSP 1303.
REVISED RECORDS.--WSP 1172: 1928-30. WSP 1383: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 357.16 ft (108.86 m) National Geodetic Vertical Datum of 1929. Prior to October 1928, nonrecording gage at railroad bridge about 1 mi (1.6 km) downstream at datum 1.12 ft (0.34 m) lower. October 1928 to July 1932, and August 1937 to January 1939, nonrecording gage at present site and datum.
REMARKS.--Records good.
AVERAGE DISCHARGE.--47 years, 1,812 ft^3/s (51.3 m^3/s), 17.21 in/yr (437.1 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 79,400 ft^3/s (2,250 m^3/s) Oct. 2, 1929, gage height, 34.8 ft (10.61 m), from rating curve extended above 30,000 ft^3/s (850 m^3/s) on basis of slope-conveyance studies; minimum, 108 ft^3/s (3.06 m^3/s) Oct. 8, 1954.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1926, that of Oct. 2, 1929.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 14,000 ft^3/s (396 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 7	unknown	*42900	1210	28.6	8.72 (from floodmarks)	Jan. 27	0300	31500	892	25.41	7.745

Minimum daily discharge, 480 ft^3/s (13.6 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	671	1320	1470	1980	2890	1510	1440	1500	1000	640	814	565
2	1010	1220	1820	1680	2610	1510	1420	2210	966	631	798	555
3	2600	1180	1610	1520	2400	1650	1390	1830	942	622	719	664
4	1830	1700	1470	1420	2180	1940	1380	1640	929	604	818	699
5	1130	4430	1420	1360	2040	1770	1370	2210	916	586	1040	583
6	923	24400	1490	1440	1980	1570	1350	1870	897	559	923	542
7	833	36000	1390	2250	1890	1500	1330	1580	987	554	1410	513
8	788	20000	1280	2300	1820	1570	1310	1680	1710	554	2290	509
9	1770	10000	1250	3110	1800	2080	1280	5060	2330	554	1940	509
10	6340	6000	1310	3670	1790	7530	1270	5950	1750	550	2160	583
11	4930	4000	1280	2580	1730	8720	1260	2790	1280	541	1840	568
12	2290	3000	1220	2030	1680	4310	1400	1890	1120	541	1380	552
13	1570	2500	1200	2130	1680	2970	1530	1770	1090	528	1270	562
14	1310	2000	1230	2640	1830	2520	1710	1770	1120	518	1090	552
15	1150	1800	1420	2270	1730	2470	1460	1570	989	528	1120	548
16	1040	1580	1420	1880	1620	2220	1320	1460	943	2380	1190	545
17	965	1480	1300	2100	1590	2010	1250	1360	915	1940	1040	541
18	914	1530	1320	3630	1580	1880	1260	1340	890	1150	862	537
19	889	1410	1680	3300	1630	1820	1740	1390	872	899	772	533
20	865	1320	1520	8690	1580	1780	2640	1310	847	777	741	526
21	852	1270	1400	10200	1510	1740	1830	1230	844	709	715	519
22	829	1260	1320	4660	1490	1700	1520	1170	919	679	670	512
23	808	1390	1260	2950	1460	1650	1400	1130	906	671	627	506
24	797	1560	1220	2480	1440	1610	1350	1120	847	690	597	500
25	815	1510	1490	9040	1430	1600	1380	1140	793	689	582	496
26	6890	1420	2210	24700	1410	1640	1810	1170	762	835	579	496
27	11700	1310	1780	28300	1390	1740	1820	1150	744	829	576	491
28	5450	1270	1520	16300	1390	1620	1540	1100	716	1940	963	488
29	2440	1380	1410	5100	---	1530	1390	1080	690	2110	783	485
30	1830	1440	1420	3710	---	1500	1310	1100	662	1210	647	480
31	1510	---	2060	3220	---	1460	---	1060	---	917	582	---
TOTAL	67739	140680	45190	162640	49570	71120	44460	54630	30376	26935	31538	16159
MEAN	2185	4689	1458	5246	1770	2294	1482	1762	1013	869	1017	539
MAX	11700	36000	2210	28300	2890	8720	2640	5950	2330	2380	2290	699
MIN	671	1180	1200	1360	1390	1460	1250	1060	662	518	576	480
CFSM	1.53	3.28	1.02	3.67	1.24	1.60	1.04	1.23	.71	.61	.71	.38
IN.	1.76	3.66	1.18	4.23	1.29	1.85	1.16	1.42	.79	.70	.82	.42

CAL YR 1977 TOTAL 722265 MEAN 1979 MAX 36000 MIN 404 CFSM 1.38 IN 18.79
WTR YR 1978 TOTAL 741037 MEAN 2030 MAX 36000 MIN 480 CFSM 1.42 IN 19.28

02192000 BROAD RIVER NEAR BELL, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV						
16...	1200	1600	7.3	21.0	12.0	10.2
FEB						
08...	0940	1820	6.5	-1.0	3.0	--
MAY						
17...	1320	1340	6.8	24.0	18.5	9.0
AUG						
16...	1130	1180	7.1	32.5	25.0	7.7

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, FC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV									
16...	44	33	.4	151	--	.25	.02	.05	3.0
FEB									
08...	48	25	.5	40	--	.31	<.02	.04	2.0
MAY									
17...	46	26	<1.0	430	--	.30	<.02	.04	12
AUG									
16...	55	70	1.0	2300	19	.22	<.02	.09	5.0

02196820 BUTLER CREEK AT FORT GORDON, GA.

LOCATION.--Lat 33°26'33", long 82°07'43", Richmond County, Hydrologic Unit 03060106, on upstream side of old bridge 600 ft (183 m) upstream from U.S. Highways 78 and 278 at Fort Gordon.

DRAINAGE AREA.--7.5 mi^2 (19.4 km^2).

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 280 ft (85.3 m), from topographic map.

REMARKS.--Records fair except those of no gage-height record, Oct. 27 to Dec. 5 and Dec. 26 to Jan. 16, which are poor.

AVERAGE DISCHARGE.--10 years, 8.05 ft^3/s (0.228 m^3/s), 14.58 in/yr (370.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 7.00 ft (2.134 m), from floodmark, Mar. 3, 1971 (discharge not determined); minimum daily discharge, 0.10 ft^3/s (0.003 m^3/s) June 29, July 21, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 303 ft^3/s (8.58 m^3/s) Jan. 26, gage height, 5.28 ft (1.609 m); minimum daily, 0.53 ft^3/s (0.015 m^3/s) July 9, 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.2	5.0	10	15	16	11	8.4	33	2.9	.88	1.4	1.9
2	18	4.5	6.0	12	21	9.1	8.0	17	3.0	.98	1.3	2.6
3	8.4	6.0	5.0	10	15	21	8.0	13	4.6	.95	2.1	15
4	4.4	30	10	9.0	14	12	7.9	20	6.2	.80	5.2	4.2
5	3.7	100	40	8.5	14	9.7	7.4	12	3.8	.80	2.4	2.4
6	3.4	45	20	9.0	13	9.4	7.0	9.3	3.5	2.2	3.7	3.6
7	3.2	20	10	13	12	9.4	9.1	9.5	3.9	2.0	5.4	2.6
8	3.4	10	8.7	20	12	14	6.6	13	22	1.1	3.0	2.3
9	6.3	8.0	9.0	15	12	27	6.2	86	13	.53	2.4	2.2
10	4.7	7.0	8.3	10	12	40	6.1	23	5.3	.53	2.4	2.2
11	3.8	6.5	7.8	9.0	11	16	6.4	14	4.1	1.9	3.6	2.1
12	4.4	6.0	7.6	20	11	14	10	11	3.6	3.5	3.9	2.0
13	6.0	5.5	7.6	40	14	14	51	11	3.6	1.5	3.4	2.0
14	4.5	5.3	18	20	12	13	14	8.8	3.1	1.3	5.5	1.8
15	3.9	5.0	15	15	11	11	9.1	8.6	2.7	8.1	6.9	1.7
16	3.5	4.8	9.7	12	12	10	7.6	8.4	2.3	67	4.9	1.8
17	3.3	5.5	9.0	23	12	9.6	7.1	7.7	1.8	21	3.6	1.7
18	3.4	5.2	10	17	16	9.3	7.6	7.8	1.7	4.2	2.7	1.6
19	3.2	5.0	8.3	76	13	9.2	11	7.9	1.5	2.6	2.4	1.6
20	3.1	4.8	7.8	51	11	9.2	7.0	6.5	1.5	2.0	2.1	1.5
21	3.2	6.0	7.6	22	10	9.1	10	5.7	1.6	1.6	2.0	1.5
22	3.3	9.0	7.1	17	9.6	8.9	7.9	6.6	3.2	1.5	1.9	1.5
23	3.3	8.0	7.0	15	9.5	8.6	5.7	7.3	2.3	1.5	1.8	1.9
24	3.4	7.0	7.3	14	9.4	8.5	5.9	7.2	1.8	1.4	1.8	2.9
25	4.4	6.0	21	148	9.1	21	50	8.0	1.5	3.9	1.8	5.2
26	16	5.5	10	107	8.7	33	39	5.7	1.4	2.0	1.7	1.2
27	12	5.3	9.0	30	8.5	13	18	4.9	1.4	4.1	1.8	1.0
28	20	5.0	8.0	22	10	11	11	4.5	1.2	6.4	1.7	.95
29	15	4.8	7.5	19	---	9.9	9.2	4.9	1.1	2.5	2.4	.87
30	10	20	30	18	---	9.1	8.7	4.3	.98	1.8	3.4	1.2
31	7.0	---	20	17	---	8.8	---	3.5	---	1.4	2.1	---
TOTAL	196.4	365.7	362.3	833.5	338.8	418.8	370.9	390.1	110.58	151.97	90.7	75.02
MEAN	6.34	12.2	11.7	26.9	12.1	13.5	12.4	12.6	3.69	4.90	2.93	2.50
MAX	20	100	40	148	21	40	51	86	22	67	6.9	15
MIN	3.1	4.5	5.0	8.5	8.5	8.5	5.7	3.5	.98	.53	1.3	.87
CFSM	.85	1.63	1.56	3.59	1.61	1.80	1.65	1.68	.49	.65	.39	.33
IN.	.97	1.81	1.80	4.13	1.68	2.08	1.84	1.93	.55	.75	.45	.37

CAL YR 1977 TOTAL 3253.60 MEAN 8.91 MAX 150 MIN .54 CFSM 1.19 IN 16.14
WTR YR 1978 TOTAL 3704.77 MEAN 10.2 MAX 148 MIN .53 CFSM 1.36 IN 18.37

02197000 SAVANNAH RIVER AT AUGUSTA, GA.

LOCATION.--Lat 33°22'25", long 81°56'35", Richmond County, Ga.-Aiken County, S.C., Hydrologic Unit 03060106, at New Savannah Bluff lock and dam, 0.2 mi (0.3 km) upstream from Butler Creek, 12.0 mi (19.3 km) downstream from Augusta, and at mile 187.4 (301.5 km).

DRAINAGE AREA.--7,508 mi^2 (19,446 km^2), including that of Butler Creek.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1883 to December 1891, January 1896 to December 1906, January 1925 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage-height records collected at site of Fifth Street gage from 1875 to 1952 and at New Savannah Bluff lock and dam sites since 1937 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1303: 1927-39 (monthly runoff). WSP 1433: 1888, 1896-99, 1902-03, 1906-07, and 1932(M). WDR SC-77-1: 1975.

GAGE.--Water-stage recorder. Datum of gage is 96.58 ft (29.44 m) National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark). Oct. 1, 1883 to Dec. 31, 1891, Jan. 1, 1896 to Dec. 31, 1906, Jan. 1, 1925 to Sept. 30, 1932, nonrecording or recording gage at Fifth Street Bridge at datum 102.06 ft (31.11 m) above mean sea level (levels by Southeastern Engineering Co.). Oct. 1, 1932 to Sept. 30, 1936, recording gage at Thirteenth Street Bridge at datum 104.56 ft (31.87 m) above mean sea level (levels by Corps of Engineers) Oct. 1, 1936 to Nov. 10, 1948, recording gage at site 0.2 mi (0.3 km) downstream from present site and at present datum.

REMARKS.--Records good. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, and Clark Hill Reservoir. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, and 02194500). Records of chemical analyses for the water years 1968-72 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--71 years, 10,200 ft^3/s (289 m^3/s), 18.45 in/yr (468.6 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 350,000 ft^3/s (9,910 m^3/s) Oct. 3, 1929; maximum gage height, 46.3 ft (14.11 m) Sept. 27, 1929 (at site and datum then in use); minimum discharge, 648 ft^3/s (18.4 m^3/s) Sept. 24, 1939, from rating curve extended below 1,400 ft^3/s (39.6 m^3/s); minimum daily, 1,040 ft^3/s (29.5 m^3/s) Oct. 2, 1927.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum flood known occurred in 1796, discharge, 360,000 ft^3/s (10,200 m^3/s), gage height, 40 ft (12.2 m), marked by local residents, at site and datum of Fifth Street gage, by conveyance-slope study.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43,100 ft^3/s (1,220 m^3/s) Jan. 26, gage height, 21.98 ft (6.700 m); minimum daily, 6,110 ft^3/s (173 m^3/s) Sept. 18.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7200	6750	14600	9200	24100	10100	8660	7770	10100	7350	6870	6830
2	7270	6870	14700	9200	24700	10200	8000	7890	9630	6920	6890	6640
3	7090	6780	14200	9440	25000	10300	7670	8660	9660	6530	6910	6650
4	6750	6660	11600	9500	23600	9840	7570	9210	8690	6230	6900	6740
5	6600	7240	11800	9950	19200	8450	7970	9090	8320	6160	6870	8780
6	6770	7820	15000	9940	18600	8080	7880	8610	8530	6790	7300	7390
7	7040	7800	15400	9670	23100	7700	7870	8520	9090	7120	7240	7020
8	7330	9010	14600	8560	23700	7590	8060	7680	9360	7050	7030	6840
9	7560	14600	14200	9210	23900	7620	8060	13900	9780	6790	6990	6680
10	7160	14600	13300	12000	24400	8480	7780	28400	9780	6340	7100	6590
11	6840	14700	11200	13800	23500	11000	7640	22500	8940	6740	7170	6450
12	6980	14400	10500	14100	18700	12100	7880	16100	8270	7180	7050	6300
13	7150	12400	12300	12600	18200	10700	7620	13000	9060	7090	6850	6210
14	7380	11300	12800	13600	23400	10100	9990	10500	9500	7120	6680	6260
15	7240	14800	12900	12500	24200	10100	9960	10600	9860	6840	6490	6370
16	7180	15500	12800	9940	23900	9840	8800	14500	10000	6970	6470	6500
17	6860	15700	11900	10700	20200	9840	8000	14500	9280	7110	6580	6340
18	6570	15700	9710	14300	16000	9370	7430	14700	8520	6960	6760	6110
19	6550	13100	9340	15900	12700	9140	7290	14600	7970	7110	6850	7040
20	6750	11200	9500	25900	11200	8930	7410	12000	7500	7330	6900	7510
21	6920	11600	9880	24600	11000	9010	7670	10500	7340	7370	6680	6940
22	6880	14000	10200	18500	11500	9160	7770	9230	7280	7200	6420	6690
23	6960	14600	9640	14700	10800	9360	7700	12400	7800	7170	6360	6530
24	6780	14700	9520	16300	10900	9280	7520	12700	7870	6960	6410	6480
25	6590	13900	8650	23000	10600	9150	7130	12900	7680	7280	6440	6410
26	6650	12800	8390	41300	8900	9990	7750	12800	7180	7420	6560	6270
27	6950	11100	10200	33100	8440	15300	8600	12300	6790	8330	6600	6690
28	7730	11100	10100	28100	9390	13000	8400	10400	6780	7780	6510	6590
29	7920	13300	10400	21700	---	10300	8220	8910	7660	7550	7290	6480
30	7670	14100	10300	19600	---	9120	8070	9620	7730	7490	7550	6500
31	7070	---	10200	24400	---	8990	---	9640	---	7260	7090	---
TOTAL	218390	358130	359830	505310	503830	302140	240370	374130	255950	219540	211810	200830
MEAN	7045	11940	11610	16300	17990	9746	8012	12070	8532	7082	6833	6694
MAX	7920	15700	15400	41300	25000	15300	9990	28400	10100	8330	7550	8780
MIN	6550	6660	8390	8560	8440	7590	7130	7680	6780	6160	6360	6110

CAL YR 1977 TOTAL 3764880 MEAN 10310 MAX 32200 MIN 6530 MEAN† 10318 CFSM† 1.37 IN† 18.60
WTR YR 1978 TOTAL 3750260 MEAN 10270 MAX 41300 MIN 6110 MEAN† 10324 CFSM† 1.38 IN† 18.73

† Adjusted for change in contents in Lake Burton, Mathis Reservoir, Hartwell Lake, and Clark Hill Reservoir.

02197000 SAVANNAH RIVER AT AUGUSTA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1949 to September 1950, February 1968 to September 1972, July 1973 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1973 to current year.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 26.0°C July 30, 1974; minimum, 4.5°C Jan. 30, 31, Feb. 2, 4, 1977.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 24.0°C Aug. 22, Sept. 19; minimum, 5.0°C Feb. 22, 23.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.5	23.0	19.0	18.5	16.0	15.5	10.0	10.0	6.5	6.0	7.0	7.0
2	23.5	23.0	19.0	18.5	16.0	15.0	10.0	9.0	6.5	6.0	7.0	6.5
3	23.5	23.0	19.5	19.0	15.0	14.5	9.5	9.0	6.0	6.0	6.5	6.0
4	23.0	22.0	19.5	19.0	15.5	14.5	9.0	9.0	6.0	5.5	6.0	6.0
5	22.0	21.5	19.5	19.5	15.5	15.0	9.5	9.0	6.0	5.5	6.5	6.0
6	21.5	21.0	19.5	19.5	15.5	13.5	10.0	9.5	6.0	5.5	7.5	6.0
7	22.0	21.0	19.5	19.0	13.5	12.5	10.0	10.0	5.5	5.5	8.5	7.0
8	22.0	21.5	19.5	19.0	13.0	12.5	10.5	10.0	6.0	5.5	8.5	8.0
9	22.0	21.5	19.0	18.5	13.5	13.0	10.5	9.0	6.0	5.5	8.0	7.0
10	21.5	21.0	19.0	18.0	13.0	12.0	9.0	7.0	6.0	5.5	7.0	6.5
11	21.5	21.0	18.0	17.0	12.0	11.5	8.0	7.0	6.0	5.5	8.0	7.0
12	21.0	21.0	17.5	16.5	12.0	11.5	8.0	7.5	6.5	5.5	8.5	8.0
13	21.0	19.5	16.5	16.0	13.0	11.5	8.0	8.0	6.5	6.0	9.0	8.5
14	19.5	19.0	16.0	15.5	13.5	13.0	8.0	6.0	6.0	5.5	10.0	9.0
15	19.5	18.5	17.0	16.0	13.5	13.0	6.0	5.5	6.5	6.0	10.0	9.5
16	19.5	19.0	17.0	16.5	13.0	12.5	6.5	6.0	6.5	6.0	10.5	9.5
17	19.0	18.5	17.5	17.0	13.0	13.0	8.0	6.5	6.5	6.0	10.0	8.5
18	18.5	18.0	17.5	16.5	13.0	12.5	8.0	7.5	6.5	6.5	9.0	8.5
19	19.0	18.0	16.5	16.0	13.0	12.5	8.0	7.5	6.5	6.0	10.0	8.5
20	19.5	18.5	16.5	16.0	12.5	12.5	7.5	7.0	6.5	6.0	11.0	9.5
21	19.0	18.5	17.0	16.0	12.5	12.0	7.0	6.0	6.5	6.0	11.5	10.5
22	19.5	18.5	17.0	17.0	12.0	11.0	7.0	6.5	5.5	5.0	11.5	10.5
23	19.5	18.5	17.0	17.0	11.0	10.5	7.5	6.5	5.5	5.0	11.5	10.5
24	19.5	18.5	17.0	17.0	11.5	10.5	7.5	7.0	6.0	5.5	11.5	11.0
25	20.0	19.0	17.0	16.5	12.0	11.5	8.0	7.5	6.5	5.5	12.0	11.0
26	20.0	19.5	16.5	14.5	11.5	10.0	8.0	7.5	7.5	6.5	11.5	10.5
27	20.0	19.5	14.5	13.5	10.0	9.5	7.5	7.0	8.0	7.0	12.5	11.0
28	19.5	18.5	15.0	14.0	9.5	9.0	7.0	6.0	7.5	7.0	11.0	10.5
29	19.5	18.5	16.0	15.0	9.5	9.0	6.5	6.0	---	---	12.0	11.0
30	19.5	19.5	16.0	15.5	10.0	9.5	6.5	5.5	---	---	12.0	11.5
31	19.5	19.0	---	---	10.0	10.0	6.5	6.0	---	---	12.5	11.5
MONTH	23.5	18.0	19.5	13.5	16.0	9.0	10.5	5.5	8.0	5.0	12.5	6.0

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	12.5	12.0	15.0	14.5	18.5	16.5	21.5	20.0	23.5	22.0	---	---
2	---	---	14.5	13.0	18.5	16.5	21.0	20.0	23.0	21.0	---	---
3	---	---	13.5	12.5	18.0	16.5	22.0	20.0	23.0	21.5	---	---
4	---	---	14.5	13.0	19.0	16.5	23.0	21.5	22.5	21.5	---	---
5	---	---	14.5	14.0	20.0	18.0	23.0	21.0	22.0	20.5	---	---
6	---	---	---	---	19.5	17.5	21.5	20.0	21.5	20.0	---	---
7	---	---	---	---	18.5	16.5	20.5	19.0	22.0	20.0	22.5	22.0
8	---	---	---	---	19.0	17.0	21.0	19.5	23.5	21.5	23.0	22.0
9	---	---	---	---	18.5	17.0	21.0	19.5	23.0	22.0	23.5	22.5
10	---	---	17.0	14.0	20.5	18.0	22.0	20.5	22.5	21.5	23.5	22.5
11	---	---	17.0	15.0	21.0	19.0	22.5	21.0	22.0	20.5	23.5	22.5
12	---	---	16.0	14.0	21.0	19.0	22.5	20.5	21.5	20.5	23.5	22.5
13	---	---	14.5	13.5	21.0	17.5	21.5	20.0	22.0	21.0	23.5	23.0
14	---	---	15.5	14.0	19.5	17.5	21.0	19.5	22.5	21.5	23.0	22.0
15	14.5	13.5	15.5	14.5	19.5	17.5	21.0	20.0	23.0	22.0	22.5	22.0
16	15.0	14.0	15.5	13.5	19.5	17.5	21.0	20.0	23.0	22.0	22.5	21.5
17	15.0	13.5	15.5	13.5	19.0	17.0	20.5	18.5	23.0	22.0	22.5	22.0
18	14.5	14.0	15.0	13.5	19.5	17.0	22.5	20.5	23.5	22.5	23.5	22.5
19	14.5	13.5	15.5	13.5	20.5	18.0	22.0	20.5	23.5	22.5	24.0	23.0
20	14.0	13.5	16.0	15.0	20.5	19.0	21.5	20.5	23.5	22.5	23.0	22.0
21	14.0	13.0	16.5	15.5	20.5	18.5	22.0	20.0	23.5	22.5	23.5	23.0
22	14.0	13.0	18.0	16.0	20.5	18.5	22.0	20.5	24.0	23.0	23.5	23.0
23	14.0	13.5	17.5	15.0	21.0	18.5	21.5	20.0	23.5	22.5	23.5	22.5
24	14.5	14.0	15.5	15.0	20.5	18.5	22.5	21.0	23.0	22.0	22.5	22.0
25	14.5	13.0	16.0	15.0	21.5	19.5	23.0	21.5	23.0	22.0	22.0	21.0
26	13.5	12.0	16.5	15.5	21.5	20.0	23.0	21.0	22.5	21.5	22.0	21.5
27	13.0	12.0	17.0	15.5	22.0	21.0	21.5	20.0	22.0	21.5	22.0	21.0
28	15.0	13.0	17.0	16.0	22.0	20.0	21.5	20.5	22.5	21.0	21.0	20.5
29	15.5	14.5	17.5	16.0	21.5	19.0	21.5	20.0	23.0	22.0	21.0	20.5
30	15.5	14.5	18.5	16.5	21.5	19.0	22.5	20.5	23.0	21.0	21.0	20.5
31	---	---	18.0	16.5	---	---	23.0	21.0	---	---	---	---
MONTH	15.5	12.0	18.5	12.5	22.0	16.5	23.0	18.5	24.0	20.0	24.0	20.5
YEAR	24.0	5.0										

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.

LOCATION.--Lat 33°13'01", long 81°46'04", Aiken County, S.C.-Burke County, Ga., Hydrologic Unit 03060106, on left bank 1.4 mi (2.3 km) downstream from Upper Three Runs Creek, 6.2 mi (10.0 km) south of Jackson, 15.2 mi (24.5 km) upstream from Steel Creek, and at mile 156.8 (252.3 km).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1971 to current year, discharge below 20,000 ft^3/s (566 m^3/s), only.

GAGE.--Water-stage recorder. Datum of gage is 77.0 ft (23.47 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, and Clark Hill Reservoir. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, and 02194500.)

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 20.22 ft (6.163 m) Mar. 3, 1975; minimum daily discharge, 6,330 ft^3/s (179 m^3/s) Oct. 5, 1971, Oct. 21, 1973.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 19.65 ft (5.989 m) Jan. 28; minimum daily discharge, 5,800 ft^3/s (164 m^3/s) Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7370	6780	15900	10700	---	10800	10000	8460	11000	7300	6690	6680
2	7610	6920	16300	9900	---	11400	8970	8590	11000	6830	6530	6850
3	7590	6820	16500	10200	---	11600	8380	9380	10700	6600	6580	7170
4	7230	6660	15500	9800	---	11700	8300	10400	9930	6250	6630	7460
5	6830	6960	13100	10400	---	10200	8730	10600	9180	6070	6630	8180
6	6870	7990	15100	10600	---	9120	8640	9760	8960	6080	6940	7530
7	7190	8380	16800	10600	---	8460	8590	9550	10200	6720	7130	6770
8	7390	7970	17100	9470	---	8330	8620	8260	10200	6940	6910	6610
9	7860	12800	16700	9640	---	8360	8650	9340	11100	6860	7010	6410
10	7630	15300	16300	11500	---	9280	8340	17200	11200	6560	7230	6330
11	6670	15800	14900	14100	---	11200	7860	20200	10500	6190	7350	6290
12	6880	16000	11800	15600	---	13800	8200	20900	9130	6380	7080	6190
13	7300	15600	12800	15700	---	13600	7930	19600	8880	6750	6840	6080
14	7680	13100	13700	15700	---	12200	9380	16700	10800	6970	6820	6080
15	7500	14200	14500	16000	---	11800	11700	13400	10400	6860	6710	6190
16	7370	16100	14600	13700	---	11400	10600	14700	11100	6780	6700	6300
17	7050	16800	14400	12000	---	11200	8830	16100	10700	7400	6830	6300
18	6600	17100	12400	13500	---	11000	7830	16500	9270	7290	7000	6000
19	6460	16800	10300	16500	19400	10300	7860	16800	8150	7310	7050	5800
20	6600	14800	10300	18700	16700	10000	8070	16200	7320	7330	7130	7110
21	6890	12200	10200	---	14800	10100	8360	13900	7410	7250	6880	6760
22	6930	14100	11000	---	13800	9970	8330	11100	7390	6990	6510	6560
23	7060	15400	10700	---	13400	10300	8230	11800	7670	7090	6340	6450
24	6880	16100	10400	---	12700	10400	8010	14100	8020	6890	6390	6360
25	6640	16200	9530	19400	12600	10400	7510	14500	7690	6650	6420	6310
26	6850	15700	8380	---	11100	10300	8150	14600	7010	6650	6590	6050
27	7410	14000	9940	---	9060	13800	9290	14600	6460	7520	6820	6230
28	8170	12000	10800	---	9910	16400	9330	13500	6440	7180	6780	6260
29	8610	13600	11000	---	---	14600	8920	10800	7410	7160	6860	6150
30	8210	15000	11200	---	---	11700	8710	10000	7820	7330	7470	6270
31	7400	---	11400	---	---	10600	---	10500	---	7080	6880	---
TOTAL	224730	387180	403550	---	---	344320	260320	412040	273040	213260	211730	195730
MEAN	7249	12910	13020	---	---	11110	8677	13290	9101	6879	6830	6524
MAX	8610	17100	17100	---	---	16400	11700	20900	11200	7520	7470	8180
MIN	6460	6660	8380	---	---	8330	7510	8260	6440	6070	6340	5800

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—October 1972 to June 1974.
PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: October 1971 to current year.
EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: Maximum, 26.0°C Aug. 14, 1973, July 31, Aug. 27, 28, 1974, Aug. 19, 20, 1975, Aug. 8-11, 30, 31, Sept. 1, 1977; minimum, 4.5°C Jan. 19, 20, 22, 23, Feb. 1, 1977, Feb. 9, 1978.
EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURES: Maximum, 25.0°C Aug. 8, 10, 19, 20, Sept. 1; minimum, 4.5°C Feb. 9.

TEMPFRATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.5	23.0	19.0	18.5	16.0	15.5	10.5	9.5	5.5	5.0	8.0	8.0
2	23.5	23.0	19.0	18.0	15.5	15.0	10.5	9.5	6.0	5.5	8.0	7.5
3	23.0	22.5	19.5	18.5	15.0	14.5	9.5	9.0	6.0	5.5	7.5	7.0
4	22.0	21.5	19.5	19.5	15.0	14.5	9.0	8.5	6.0	5.5	7.0	6.5
5	21.5	21.0	20.0	19.5	15.5	15.0	9.5	8.5	5.5	5.5	7.0	6.0
6	21.0	20.5	20.0	19.5	15.5	14.5	10.0	9.5	5.5	5.5	8.0	6.5
7	21.5	20.5	20.0	19.5	14.5	12.5	10.5	10.0	5.5	5.0	8.5	7.5
8	21.0	20.5	19.5	19.0	12.5	11.5	11.5	10.5	5.0	5.0	9.0	8.5
9	22.0	21.0	19.5	19.0	12.5	11.5	11.5	9.5	5.0	4.5	9.0	8.0
10	21.0	20.5	19.0	18.5	12.5	11.5	9.5	8.0	5.5	5.0	8.0	7.5
11	21.0	20.0	18.5	17.0	11.0	10.0	7.5	7.0	6.0	5.5	8.5	7.5
12	21.0	20.5	17.0	16.0	11.5	10.0	7.5	7.0	6.5	5.5	9.5	8.5
13	20.0	19.0	16.0	15.0	12.0	11.5	7.5	7.0	6.5	6.5	10.5	9.0
14	19.0	18.5	15.0	14.5	13.0	12.0	7.5	7.0	6.5	6.0	11.0	10.5
15	18.5	18.0	16.0	15.0	13.5	13.0	6.5	5.0	6.5	6.0	12.0	11.0
16	18.5	18.0	16.5	16.0	13.5	13.0	5.5	5.0	7.0	6.5	12.0	11.5
17	18.5	17.5	17.5	16.5	13.5	13.0	7.0	6.0	7.5	6.5	11.5	10.5
18	18.0	17.0	17.5	16.5	13.5	13.0	8.0	7.0	7.5	7.5	10.5	10.0
19	18.0	17.0	16.5	15.5	13.0	12.5	8.0	7.5	7.5	7.5	10.5	9.5
20	18.5	17.0	16.0	15.5	13.0	12.5	7.5	7.0	7.5	7.0	11.5	10.5
21	18.5	17.5	16.5	15.5	12.5	12.0	7.0	6.0	7.0	6.5	---	---
22	18.5	17.5	17.0	16.5	12.0	11.0	6.5	6.0	6.5	6.0	---	---
23	19.0	18.0	17.5	17.0	11.0	10.0	6.5	6.0	6.0	5.5	---	---
24	19.0	18.0	17.5	17.0	11.0	10.5	7.0	6.5	6.0	5.0	---	---
25	19.5	18.5	17.0	17.0	12.0	11.0	8.5	7.0	7.0	6.0	---	---
26	20.0	19.5	17.0	15.0	11.5	10.5	8.5	8.0	8.0	7.5	---	---
27	19.5	19.0	15.0	13.5	10.5	9.5	7.5	6.5	8.5	8.0	---	---
28	19.0	19.0	14.5	13.0	9.5	8.5	6.5	6.0	8.5	8.0	---	---
29	19.0	18.5	15.5	14.5	9.0	8.5	6.0	5.0	---	---	---	---
30	19.0	19.0	16.0	15.0	9.5	9.0	5.0	5.0	---	---	---	---
31	19.0	18.5	---	---	10.0	9.5	5.5	5.0	---	---	---	---
MONTH	23.5	17.0	20.0	13.0	16.0	8.5	11.5	5.0	8.5	4.5	12.0	6.0

02197320 SAVANNAH RIVER NEAR JACKSON, S.C.—Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	17.0	16.0	---	---	23.5	21.0	24.5	23.0	25.0	23.5
2	---	---	16.5	15.5	---	---	23.0	22.0	24.5	23.5	24.5	23.5
3	---	---	16.0	15.0	---	---	23.5	22.0	24.0	22.5	24.5	23.5
4	---	---	15.0	14.0	---	---	23.5	22.0	24.0	22.5	24.5	23.5
5	---	---	15.5	14.5	---	---	24.0	23.0	24.0	22.5	24.0	23.0
6	---	---	16.5	15.5	---	---	23.5	22.0	23.0	22.0	24.5	23.5
7	---	---	17.0	16.0	---	---	22.5	21.0	22.5	21.5	24.0	22.5
8	---	---	18.0	17.0	---	---	22.0	20.5	25.0	22.0	24.0	22.5
9	---	---	17.5	16.0	---	---	22.5	21.0	24.5	22.5	24.0	23.0
10	---	---	16.0	14.5	---	---	23.0	21.0	25.0	22.5	24.5	23.5
11	---	---	17.0	15.5	---	---	23.5	22.5	23.0	22.0	24.0	23.0
12	---	---	17.5	16.5	---	---	23.5	22.5	22.5	21.5	24.0	23.0
13	---	---	---	---	---	---	23.5	22.0	23.0	21.5	24.5	23.0
14	---	---	---	---	---	---	23.0	21.5	23.0	22.0	24.5	23.5
15	---	---	---	---	---	---	22.5	21.5	24.0	22.5	23.5	22.5
16	---	---	---	---	---	---	22.0	21.0	24.5	23.0	23.5	22.5
17	---	---	---	---	---	---	22.5	21.5	24.0	23.0	24.0	22.5
18	---	---	---	---	---	---	23.0	21.5	24.5	23.5	24.0	23.0
19	17.0	16.5	---	---	---	---	24.0	22.0	25.0	23.5	24.5	23.0
20	16.5	15.0	---	---	---	---	23.5	22.0	25.0	23.5	24.5	23.5
21	15.0	14.5	---	---	---	---	23.5	22.0	24.5	23.5	24.0	23.0
22	15.0	13.5	18.5	18.0	---	---	24.0	22.0	24.5	23.5	24.5	23.5
23	15.0	14.0	---	---	---	---	24.0	22.0	24.5	23.5	24.5	23.5
24	16.0	14.5	---	---	---	---	24.0	22.0	24.5	23.0	23.5	23.0
25	16.0	15.0	---	---	---	---	24.0	22.5	23.5	22.5	23.0	22.5
26	15.5	14.5	---	---	---	---	24.0	23.0	23.5	22.5	22.5	22.0
27	14.5	13.5	---	---	---	---	24.0	22.0	23.0	22.0	22.0	21.5
28	14.5	13.0	---	---	---	---	23.0	21.5	23.5	22.0	21.5	21.0
29	16.0	14.0	---	---	23.5	22.0	23.0	22.0	23.5	22.0	21.5	20.5
30	16.5	15.0	---	---	23.0	21.5	23.0	21.5	24.5	23.0	21.0	20.5
31	---	---	---	---	---	---	24.5	22.0	24.0	22.5	---	---
MONTH	17.0	13.0	18.5	14.0	23.5	21.5	24.5	20.5	25.0	21.5	25.0	20.5
YEAR	25.0	4.5										

02197370 SAVANNAH RIVER BELOW STEEL CREEK, NEAR MILLET, S.C.

LOCATION.--Lat 33°04'58", long 81°35'54", Allendale County, S.C.-Burke County, Ga., Hydrologic Unit 3060106, on left bank 2.8 mi (4.5 km) downstream from Steel Creek, 12.6 mi (20.3 km) upstream from Lower Three Runs, 3.7 mi (6.0 km) west of Millet, and at mile 138.8 (223.3 km).
PERIOD OF RECORD.—Water years 1972 to current year.
PERIOD OF DAILY RECORD.—
WATER TEMPERATURE: October 1971 to current year.
EXTREMES FOR PERIOD OF RECORD.—
WATER TEMPERATURE: Maximum, 27.0°C Aug. 15, 1973, July 31, Aug. 1, 1974, Aug. 27, 1975, Aug. 11, 17, 30, 31, Sept. 1, 1977, minimum, 4.0°C Jan. 20, 1977.
EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURE: Maximum, 26.0°C Aug. 2, 19, 20, Sept. 1, 2, 6, 7, 10; minimum, 4.5°C Jan. 30, 31, Feb. 8, 9.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	24.5	23.5	19.5	18.5	16.0	15.5	10.5	10.0	5.5	5.0	8.5	8.0
2	24.5	24.0	19.0	19.0	15.5	15.0	10.5	10.0	5.5	5.5	8.0	7.5
3	24.0	23.0	19.5	19.0	15.0	14.5	9.5	9.0	6.0	5.5	7.5	7.0
4	23.0	22.0	20.0	19.5	14.5	14.5	9.0	8.5	6.0	5.5	7.0	6.5
5	22.5	21.5	20.5	20.0	15.5	14.5	9.5	8.5	5.5	5.0	7.0	6.0
6	22.0	21.0	20.5	20.0	15.5	14.5	10.0	9.5	5.5	5.0	8.0	6.5
7	22.0	21.0	20.0	19.5	14.5	12.5	10.5	9.5	5.0	5.0	8.5	7.5
8	21.5	21.5	19.5	19.0	12.5	11.5	11.5	10.5	5.0	4.5	9.0	8.5
9	22.0	21.5	19.5	19.0	12.0	11.0	11.5	9.0	5.0	4.5	9.0	9.5
10	21.5	21.0	19.0	18.0	11.5	11.0	9.0	8.0	5.5	5.0	8.5	8.0
11	21.5	20.5	18.0	17.0	11.0	10.5	8.0	6.5	6.0	5.0	8.5	8.0
12	21.5	20.5	16.5	15.5	10.5	9.5	7.0	6.5	6.0	5.5	9.0	8.5
13	20.5	19.0	15.5	15.0	12.0	10.5	7.5	7.0	6.5	6.0	10.5	9.0
14	19.5	18.5	15.0	14.0	13.0	12.0	7.5	7.0	7.0	6.5	11.0	10.0
15	19.0	18.5	15.0	13.5	13.5	13.0	7.0	6.0	6.5	6.0	12.0	10.5
16	19.0	18.5	16.0	15.0	13.5	13.5	6.0	5.0	7.0	6.5	12.5	11.5
17	18.5	17.5	16.5	16.0	13.5	13.5	6.5	5.5	7.5	6.5	11.5	11.0
18	18.5	17.5	16.5	16.0	14.0	13.5	7.5	6.5	7.5	7.5	11.0	10.0
19	18.5	17.5	16.5	15.5	13.5	13.0	8.0	7.5	7.5	7.0	11.0	9.5
20	18.5	17.5	15.5	15.0	13.0	12.5	7.5	7.0	7.5	7.0	12.0	10.0
21	18.5	18.0	16.0	15.5	13.0	12.0	7.0	6.5	7.0	6.5	13.0	11.5
22	18.5	18.0	17.0	16.0	12.0	11.0	6.5	6.0	6.5	6.0	14.0	12.5
23	19.0	18.0	17.0	17.0	11.0	10.5	6.5	6.0	5.5	5.5	13.5	12.5
24	19.0	18.5	17.0	17.0	11.0	10.5	7.0	6.5	6.0	5.0	14.0	12.5
25	19.5	19.0	17.0	16.5	12.0	11.0	8.0	7.0	6.5	5.5	14.0	13.5
26	20.0	19.5	16.5	15.0	11.5	10.0	8.5	8.0	8.0	6.5	14.0	13.0
27	19.5	19.0	15.0	13.5	10.0	9.5	7.5	6.5	8.5	7.5	13.5	11.5
28	19.5	19.0	13.5	13.0	9.5	8.5	6.5	6.0	8.5	8.5	12.0	11.0
29	19.5	19.0	14.5	13.5	9.0	8.0	6.0	5.0	---	---	12.5	11.5
30	19.0	18.5	15.5	14.5	9.5	9.0	5.0	4.5	---	---	13.5	12.5
31	19.0	18.5	---	---	10.0	9.5	5.0	4.5	---	---	14.5	13.0
MONTH	24.5	17.5	20.5	13.0	16.0	8.0	11.5	4.5	8.5	4.5	14.5	6.0

02197370 SAVANNAH RIVER BELOW STEEL CREEK, NEAR MILLET, S.C.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.5	13.5	17.0	16.5	20.5	19.0	23.5	23.0	25.0	24.5	26.0	24.5
2	15.0	14.0	16.5	16.0	20.5	19.0	24.5	23.5	26.0	25.0	26.0	25.0
3	15.5	14.5	16.0	15.5	20.0	19.0	25.0	23.5	25.5	24.0	25.5	25.0
4	16.0	15.0	15.5	15.0	20.5	18.5	25.0	23.5	25.0	24.0	25.5	24.5
5	16.5	15.5	16.0	15.0	20.0	19.0	25.0	24.0	25.0	24.0	25.0	24.0
6	16.5	15.5	17.0	15.5	21.0	20.0	24.5	23.5	24.5	23.0	26.0	24.0
7	16.5	15.5	17.5	16.5	21.0	20.0	23.5	23.0	24.0	23.0	26.0	24.5
8	17.0	16.0	18.0	17.0	20.5	19.5	23.0	22.5	24.0	23.0	25.5	24.5
9	16.5	15.5	18.0	17.5	20.5	19.0	23.5	22.5	25.0	23.5	25.5	24.0
10	16.5	16.0	17.5	15.5	20.5	19.5	24.0	22.5	25.0	23.5	26.0	24.5
11	17.0	16.5	17.0	15.0	22.5	20.0	24.5	23.0	23.5	23.0	25.5	24.5
12	17.0	16.0	17.0	16.5	22.5	20.5	24.5	23.5	23.5	23.0	25.5	24.5
13	17.0	15.5	17.0	16.5	23.0	21.5	24.0	23.5	23.5	22.5	25.5	24.5
14	17.0	15.5	17.0	16.5	22.5	21.0	24.0	23.0	24.0	23.0	25.0	24.5
15	16.0	15.5	17.0	16.5	21.0	19.5	23.5	22.5	24.0	23.0	24.5	24.0
16	17.0	15.5	16.5	15.5	21.0	19.5	23.0	22.5	25.0	23.5	24.5	23.5
17	17.0	16.0	16.0	15.0	21.0	19.0	23.5	22.0	25.5	24.0	24.5	23.5
18	16.5	16.5	15.5	15.0	21.0	19.0	23.5	22.5	25.0	24.0	25.5	24.0
19	17.5	16.5	16.0	15.5	21.0	19.5	24.5	23.0	26.0	24.5	25.0	24.0
20	17.0	15.5	16.5	16.0	22.0	21.0	24.5	24.0	26.0	25.0	25.0	24.0
21	16.0	15.0	18.5	17.0	23.0	21.5	24.5	23.5	25.5	24.5	25.0	24.5
22	15.5	14.5	19.5	17.5	22.5	21.5	25.0	23.5	25.5	24.5	25.5	24.5
23	15.5	14.5	19.5	18.5	23.0	21.5	25.0	24.0	25.5	24.5	26.0	25.0
24	16.0	15.0	19.0	16.5	22.5	22.0	25.0	24.0	25.5	24.5	25.0	24.0
25	16.5	15.5	17.5	16.5	22.5	22.0	25.5	24.0	25.0	24.0	24.0	23.5
26	16.0	14.5	18.0	17.0	23.5	22.5	25.0	24.0	25.0	24.0	23.5	22.5
27	15.0	14.5	18.0	17.0	24.0	23.5	24.5	23.5	24.0	23.5	22.5	22.0
28	15.0	14.0	18.5	17.5	25.5	23.0	23.5	23.0	24.5	23.5	22.5	21.5
29	15.5	14.0	19.0	17.5	25.5	24.0	24.0	23.0	24.5	23.5	22.0	21.5
30	17.0	15.5	19.5	18.5	24.0	23.0	24.0	23.0	25.0	24.0	21.5	21.0
31	---	---	20.5	19.0	---	---	24.5	23.5	24.5	24.5	---	---
MONTH	17.5	13.5	20.5	15.0	25.5	18.5	25.5	22.0	26.0	22.5	26.0	21.0
YEAR	26.0	4.5										

02197500 SAVANNAH RIVER AT BURTONS FERRY BRIDGE, NEAR MILLHAVEN, GA.

LOCATION.--Lat 32°56'20", long 81°30'10", Screven County, Ga.-Allendale County, S.C., Hydrologic Unit 03060106, at bridge on U.S. Highway 301, 2 mi (3.2 km) downstream from Rocky Creek, 9 mi (14.5 km) east of Millhaven, and at mile 118.7 (191.0 km).

DRAINAGE AREA.--8,650 mi^2 (22,400 km^2), approximately.

PERIOD OF RECORD.--February 1968 to May 1972, August 1974 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: January 1956 to September 1970.

REMARKS.--Flow regulated by Lake Burton, Mathis Reservoir, Hartwell and Clark Hill Lakes. (See "Lakes and Reservoirs in Savannah River Basin", stations 02178500, 02179500, 02187250, and 02194500.) Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for the water years 1940-70 are published in reports of the Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum, 30.0°C Aug. 25, 1959; minimum, 4.0°C Feb. 19, 20, 1958.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT						
04...	0630	8060	6.7	8.0	23.0	7.1
31...	1555	8340	7.0	15.0	18.5	7.0
DEC						
05...	1655	17600	6.9	21.0	14.0	7.6
FEB						
06...	1630	27700	6.5	4.0	4.0	10.2
MAR						
06...	1815	10400	6.9	15.0	7.0	9.3
MAY						
01...	1530	9060	7.1	23.0	15.0	8.2
JUN						
05...	1530	10000	6.6	21.0	20.0	7.7
JUL						
10...	1745	7070	7.0	28.0	24.0	6.7
AUG						
07...	1730	8120	6.5	29.0	24.0	6.8
SEP						
05...	1530	7840	6.8	28.0	24.5	6.3

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
04...	69	15	8	.7	430	--	.35	.06	.08	5.0
31...	78	60	18	1.1	750	--	.35	.06	.17	10
DEC										
05...	63	45	15	1.1	590	--	.18	.07	.06	3.0
FEB										
06...	50	45	16	.7	40	--	.31	<.02	.04	4.0
MAR										
06...	77	75	26	1.1	9300	--	.26	.22	.12	3.0
MAY										
01...	73	50	25	.9	2300	--	.31	.10	.11	5.0
JUN										
05...	76	75	22	1.1	4300	--	.40	.15	.09	4.0
JUL										
10...	73	50	12	.9	90	18	.50	.09	.11	3.0
AUG										
07...	80	60	12	--	--	19	.56	.14	.13	3.0
SEP										
05...	84	40	14	1.0	90	19	.38	.06	.10	3.0

02197520 BRIER CREEK NEAR THOMSON, GA.

LOCATION.--Lat 33°22'06", long 82°28'06", McDuffie County, Hydrologic Unit 03060108, on downstream side of bridge on State Highway 17, 0.2 mi (0.3 km) upstream from Sweetwater Creek, and 6.9 mi (11.1 km) south of Thomson.
DRAINAGE AREA.--55 mi^2 (142 km^2), approximately.
PERIOD OF RECORD.--July 1967 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 300 ft (101 m), from topographic map.
REMARKS.--Records fair.
AVERAGE DISCHARGE.--11 years, 49.5 ft^3/s (1.40 m^3/s), 12.22 in/yr (310.4 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,810 ft^3/s (136 m^3/s) Mar. 3, 1971, gage height, 18.09 ft (5.514 m), from floodmark; minimum daily, 0.24 ft^3/s (0.007 m^3/s) Sept. 24, 1968.
EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 0.007 ft^3/s (0.0002 m^3/s) was measured on Oct. 14, 1954.
EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 26	0600	*2560	72.5	14.28	4.352
May 9	2200	1990	56.4	13.02	3.968

Minimum daily discharge, 0.51 ft^3/s (0.014 m^3/s) Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	3.2	30	59	82	60	34	111	8.8	2.4	2.5	.96
2	8.7	3.0	20	44	101	46	32	130	7.6	2.6	2.2	.82
3	12	3.6	15	36	85	89	30	66	9.0	1.7	3.0	2.3
4	5.5	5.3	12	31	73	72	29	147	10	2.0	7.8	1.8
5	3.3	22	30	29	68	50	26	100	9.2	1.8	3.7	1.5
6	2.3	250	42	30	65	45	23	56	19	1.7	5.5	1.3
7	2.0	61	25	30	59	43	22	45	52	2.2	7.6	.70
8	1.8	33	20	31	57	72	23	65	33	1.6	6.4	.96
9	3.1	25	19	67	56	93	19	661	45	1.7	3.7	.88
10	2.9	21	19	42	53	320	17	548	23	2.0	2.6	.70
11	2.1	17	17	32	50	156	16	127	15	3.7	2.6	.71
12	2.2	14	16	30	48	107	29	82	13	5.2	7.0	.82
13	2.2	13	16	98	56	99	391	72	10	2.7	4.1	.51
14	1.6	12	21	173	65	88	220	58	7.8	2.4	2.6	.72
15	1.3	12	36	75	49	84	80	46	6.4	8.6	11	.97
16	1.5	12	26	54	49	67	55	42	5.9	14	29	.86
17	1.1	12	23	85	62	56	44	35	5.2	13	8.6	.83
18	1.1	14	29	109	68	50	40	33	5.3	7.9	4.7	.53
19	.96	11	31	303	71	48	67	35	4.7	4.6	3.2	.53
20	.82	11	24	710	54	47	48	26	4.2	3.4	2.5	.63
21	.82	11	22	182	48	45	34	22	4.0	2.7	1.9	.96
22	.96	11	19	115	44	44	29	20	3.7	2.9	1.8	1.1
23	.96	22	18	92	42	41	26	18	3.4	4.0	1.9	.82
24	1.3	20	18	82	41	39	24	20	3.2	2.9	1.3	1.9
25	1.7	15	45	1200	39	39	98	22	3.1	16	1.1	.82
26	4.2	10	42	1620	37	118	112	17	2.6	6.3	1.1	1.4
27	5.1	8.0	28	244	33	69	78	14	2.5	4.1	1.9	.70
28	6.0	6.0	24	152	39	50	47	13	2.3	3.5	2.3	.70
29	4.3	5.0	22	118	---	44	36	13	2.3	2.9	1.6	1.2
30	3.5	4.5	31	100	---	41	31	12	1.8	3.1	1.7	1.3
31	3.4	---	115	90	---	37	---	10	---	2.4	1.5	---
TOTAL	91.22	667.6	855	6063	1594	2259	1760	2666	323.0	136.0	138.4	29.93
MEAN	2.94	22.3	27.6	196	56.9	72.9	58.7	86.0	10.8	4.39	4.46	1.00
MAX	12	250	115	1620	101	320	391	661	52	16	29	2.3
MIN	.82	3.0	12	29	33	37	16	10	1.8	1.6	1.1	.51
CFSM	.05	.41	.50	3.56	1.04	1.33	1.07	1.56	.20	.08	.08	.02
IN.	.06	.45	.58	4.10	1.08	1.53	1.19	1.80	.22	.09	.09	.02

CAL YR 1977 TOTAL 15586.90 MEAN 42.7 MAX 1540 MIN .52 CFSM .78 IN 10.54
WTR YR 1978 TOTAL 16583.15 MEAN 45.4 MAX 1620 MIN .51 CFSM .83 IN 11.22

02197600 BRUSHY CREEK NEAR WRENS, GA.

LOCATION.--Lat 33°10'37", long 82°18'20", Jefferson County, Hydrologic Unit 03060201, at right bank on downstream side of bridge on State Highway 80, 5 mi (8.0 km) southeast of Wrens, and 5.5 mi (8.8 km) upstream from Little Brushy Creek.

DRAINAGE AREA.--28.0 mi² (72.5 km²).

PERIOD OF RECORD.--May 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 282.56 ft (86.12 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--20 years, 28.2 ft³/s (0.789 m³/s), 13.68 in/yr (347.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.03 ft (2.448 m) Mar. 3, 1971 (discharge not determined); minimum discharge, 5.5 ft³/s (0.156 m³/s) Aug. 29, 30, 1968, Aug. 30, Sept. 19, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 300 ft³/s (8.50 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Jan. 26	0400	*532	15.07	6.55	1.996

Minimum daily discharge, 5.5 ft³/s (0.156 m³/s) Aug. 30, Sept. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	14	45	27	47	31	21	33	12	21	7.4	7.1
2	15	14	40	20	60	25	20	31	11	14	7.5	6.8
3	19	15	35	19	51	38	19	25	17	12	8.2	12
4	13	16	31	18	44	33	18	44	17	11	9.4	9.3
5	11	56	47	18	42	28	18	26	14	9.7	8.3	8.0
6	11	170	48	18	40	26	17	20	14	9.5	8.2	7.5
7	11	64	25	17	38	27	17	18	13	9.3	8.3	7.3
8	10	30	21	20	35	36	16	21	27	9.1	8.1	7.0
9	23	25	20	32	36	44	17	26	22	8.9	7.3	6.7
10	20	24	20	24	36	84	16	22	16	15	7.1	6.6
11	14	24	18	26	33	58	15	18	19	9.2	7.5	6.7
12	15	22	17	23	32	41	17	16	16	8.6	8.3	6.5
13	14	20	17	73	35	36	62	15	14	8.5	7.5	5.8
14	13	19	20	78	36	35	46	14	12	8.8	10	6.3
15	13	19	24	42	32	30	26	14	12	17	9.3	6.5
16	12	19	19	26	33	29	20	14	11	20	9.1	5.9
17	12	20	18	37	34	30	19	14	11	15	8.0	5.7
18	12	22	18	41	42	24	17	40	11	13	9.4	5.9
19	12	19	18	101	38	23	20	29	11	11	7.5	5.5
20	13	18	17	150	33	23	18	19	10	10	8.0	6.2
21	18	17	17	77	31	24	16	16	10	9.7	7.2	6.4
22	13	22	16	49	29	25	16	15	9.9	9.2	6.4	6.4
23	12	34	16	40	28	23	16	18	11	8.9	6.0	6.5
24	12	31	16	37	28	21	15	16	9.8	8.7	6.3	6.7
25	13	27	20	250	28	24	17	15	9.5	9.0	5.7	6.9
26	16	25	19	368	29	31	20	14	9.1	8.9	6.8	6.5
27	18	22	18	133	27	28	19	15	8.8	7.9	7.1	5.9
28	15	21	17	81	31	25	17	15	8.4	8.3	7.1	6.8
29	15	20	16	62	---	23	15	14	8.5	8.0	6.4	6.0
30	14	27	26	56	---	22	15	14	21	7.2	5.5	7.1
31	14	---	42	51	---	21	---	13	---	7.4	7.7	---
TOTAL	435	876	741	2014	1008	968	605	624	396.0	333.8	236.6	204.5
MEAN	14.0	29.2	23.9	65.0	36.0	31.2	20.2	20.1	13.2	10.8	7.63	6.82
MAX	23	170	48	368	60	84	62	44	27	21	10	12
MIN	10	14	16	17	27	21	15	13	8.4	7.2	5.5	5.5
CFSM	.50	1.04	.85	2.32	1.29	1.11	.72	.72	.47	.39	.27	.24
IN.	.58	1.16	.98	2.68	1.34	1.29	.80	.83	.53	.44	.31	.27

CAL YR 1977 TOTAL 9339.8 MEAN 25.6 MAX 286 MIN 7.8 CFSM .91 IN 12.41
WTR YR 1978 TOTAL 8441.9 MEAN 23.1 MAX 368 MIN 5.5 CFSM .83 IN 11.22

02197830 BRIER CREEK NEAR WAYNESBORO, GA.

LOCATION.--Lat 33°07'05", long 81°57'50", Burke County, Hydrologic Unit 03060108, near left bank on downstream end of pier of bridge on State Highway 56, 3.8 mi (6.1 km) northeast of Waynesboro.

DRAINAGE AREA.--473 mi^2 (1,225 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 173.78 ft (52.97 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for period of no gage-height record, Sept. 3-25, which are fair.

AVERAGE DISCHARGE.--9 years, 513 ft^3/s (14.5 m^3/s), 14.73 in/yr (374.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,800 ft^3/s (306 m^3/s) Mar. 15, 1971, gage height, 12.28 ft (3.743 m); minimum, 95 ft^3/s (2.69 m^3/s) Oct. 7, 8, 1970, gage height, 2.28 ft (0.695 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,900 ft^3/s (53.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 23	1400	2380	67.4	7.98	2.432
Jan. 28	1900	*5200	147	9.88	3.011

Minimum daily discharge, 106 ft^3/s (3.00 m^3/s) Sept. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	324	283	376	490	1140	493	562	595	250	144	123	133
2	305	258	392	504	1010	492	500	540	234	146	115	190
3	323	251	390	511	940	518	472	498	229	190	131	229
4	312	264	400	535	879	550	450	642	242	173	174	190
5	353	293	457	539	835	574	430	855	262	152	162	165
6	330	386	540	482	812	575	411	879	289	144	161	175
7	290	459	500	434	758	581	393	676	280	137	168	160
8	256	537	512	432	680	597	380	719	280	130	174	150
9	249	770	515	476	660	570	366	752	336	125	163	145
10	275	1030	494	453	649	656	349	630	346	121	181	140
11	292	836	468	457	616	760	333	545	360	120	165	135
12	324	571	424	472	571	875	329	549	353	130	155	125
13	312	453	387	631	571	1090	397	1420	322	141	184	120
14	278	396	391	684	579	1290	473	1160	275	134	287	118
15	264	365	430	663	579	1010	527	745	231	128	300	125
16	244	344	431	751	578	792	709	547	207	170	224	130
17	226	332	448	848	582	674	1380	460	187	214	242	130
18	212	324	470	974	603	612	1000	436	177	240	234	125
19	203	323	479	985	613	583	683	440	168	236	249	118
20	196	322	463	1240	610	552	528	478	162	200	247	110
21	193	324	449	1240	636	515	457	466	158	170	216	106
22	193	320	413	1440	623	493	437	416	159	152	193	108
23	196	331	391	2220	600	482	442	391	159	141	166	110
24	200	341	378	1770	568	477	432	361	167	133	152	111
25	211	350	377	1550	527	487	391	342	171	128	142	114
26	289	388	375	2070	503	547	396	320	171	125	186	117
27	293	409	373	2320	493	565	399	314	162	135	240	123
28	362	402	382	4580	490	538	416	313	175	144	165	126
29	339	376	399	4000	---	568	526	317	160	145	170	128
30	321	354	446	2240	---	815	673	295	145	138	153	127
31	314	---	493	1450	---	707	---	267	---	130	138	---
TOTAL	8479	12392	13443	37441	18705	20038	15241	17368	6817	4716	5760	4083
MEAN	274	413	434	1208	668	646	508	560	227	152	186	136
MAX	362	1030	540	4580	1140	1290	1380	1420	360	240	300	229
MIN	193	251	373	432	490	477	329	267	145	120	115	106
CFSM	.58	.87	.92	2.55	1.41	1.37	1.07	1.18	.48	.32	.39	.29
IN.	.67	.97	1.06	2.94	1.47	1.58	1.20	1.37	.54	.37	.45	.32

CAL YR 1977 TOTAL 174558 MEAN 478 MAX 3530 MIN 100 CFSM 1.01 IN 13.73
WTR YR 1978 TOTAL 164483 MEAN 451 MAX 4580 MIN 106 CFSM .95 IN 12.94

02197830 BRIER CREEK NEAR WAYNESBORO, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1958 to June 1958, December 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC							
06...	1000	552	14.0	6.0	12	18	48
JAN							
17...	0950	818	5.0	6.0	5	12	81
APR							
11...	1010	335	20.5	7.0	20	18	100
MAY							
24...	0750	368	21.5	7.0	10	9.9	100
JUL							
06...	0930	146	25.0	5.0	17	6.8	100
AUG							
15...	1340	316	24.0	4.0	8	6.8	94

02198000 BRIER CREEK AT MILLHAVEN, GA.

LOCATION.--Lat 32°56'00", long 81°39'05", Screven County, Hydrologic Unit 03060108, near right bank on downstream side of pier of highway bridge at Millhaven, 8.5 mi (13.7 km) upstream from Beaver Dam Creek.
DRAINAGE AREA.--646 mi^2 (1,670 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1936 to current year. Monthly discharges only for some periods, published in WSP 1303.
REVISED RECORDS.--WSP 1383: Drainage area. WSP 1503: 1956.
GAGE.--Water-stage recorder. Datum of gage is 95.88 ft (29.22 m) National Geodetic Vertical Datum of 1929. Prior to June 7, 1950, nonrecording gage at site 200 ft (61 m) downstream at same datum. June 7, 1950, to Apr. 30, 1951, nonrecording gage at present site and datum.
REMARKS.--Records good.
AVERAGE DISCHARGE.--42 years, 669 ft^3/s (18.9 m^3/s), 14.06 in/yr (357.1 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 25,400 ft^3/s (719 m^3/s) Aug. 16, 1940, gage height, 17.4 ft (5.304 m), from graph based on gage readings; minimum daily, 64 ft^3/s (1.81 m^3/s) Sept. 5-11, 1954.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1797, 25.1 ft (7.650 m) in September or October 1929, from information by Georgia Department of Transportation, discharge, 64,000 ft^3/s (1,810 m^3/s), by slope-conveyance study.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 26	0600	3330	94.3	10.06	3.066	Jan. 30	1900	*4710	133	11.44	3.487

Minimum discharge, 130 ft^3/s (3.68 m^3/s) Sept. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	319	402	553	661	2670	720	796	552	328	202	155	178
2	350	374	552	676	1980	708	952	808	300	179	144	227
3	360	362	501	662	1670	728	881	963	282	167	137	325
4	365	350	474	630	1440	777	744	1020	280	166	139	335
5	365	354	508	630	1310	764	657	1000	293	190	182	299
6	345	433	580	645	1220	770	604	900	358	184	211	263
7	340	466	588	671	1130	774	569	979	394	168	204	249
8	351	482	646	694	1080	792	538	1070	402	159	196	255
9	340	500	685	764	1060	828	515	1060	431	149	194	235
10	317	540	637	754	1030	1030	494	1060	420	141	209	203
11	299	616	612	787	989	1080	476	1230	412	146	308	185
12	309	785	614	725	954	1030	463	1110	400	141	300	174
13	338	985	596	757	936	1040	531	886	385	135	257	163
14	362	940	620	952	929	1090	623	735	375	143	222	156
15	374	748	688	1000	875	1200	591	928	350	150	229	155
16	352	578	632	1030	845	1420	597	1340	307	262	267	159
17	319	487	581	949	833	1370	603	1050	269	529	289	159
18	298	433	554	988	846	1150	667	807	241	458	293	153
19	280	396	536	1140	871	997	1060	647	219	345	307	147
20	263	377	548	1580	879	913	1400	582	206	280	281	142
21	250	365	679	1720	888	852	1110	547	205	264	267	137
22	241	360	698	1680	872	808	856	529	188	236	271	136
23	240	364	636	1560	852	765	663	532	183	204	252	146
24	234	375	584	1570	867	715	565	512	183	181	223	139
25	237	385	542	2420	856	684	560	477	183	166	193	140
26	285	402	517	3220	833	695	680	447	188	155	176	136
27	344	395	494	2870	790	746	632	418	191	150	172	138
28	410	389	476	2740	730	787	563	381	189	153	227	141
29	448	415	459	2660	---	802	523	362	185	164	292	143
30	437	468	490	4350	---	780	506	362	189	167	223	149
31	429	---	613	4040	---	741	---	344	---	163	194	---
TOTAL	10201	14526	17893	45525	30235	27556	20419	23638	8536	6297	7014	5567
MEAN	329	484	577	1469	1080	889	681	763	285	203	226	186
MAX	448	985	698	4350	2670	1420	1400	1340	431	529	308	335
MIN	234	350	459	630	730	684	463	344	183	135	137	136
CFSM	.51	.75	.89	2.27	1.67	1.38	1.05	1.18	.44	.31	.35	.29
IN.	.59	.84	1.03	2.62	1.74	1.59	1.18	1.36	.49	.36	.40	.32

CAL YR 1977 TOTAL 222429 MEAN 609 MAX 3500 MIN 132 CFSM .94 IN 12.81
WTR YR 1978 TOTAL 217407 MEAN 596 MAX 4350 MIN 135 CFSM .92 IN 12.52

02198000 BRIER CREEK AT MILLHAVEN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1970 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 31...	1510	428	6.8	20.0	15.5	7.8
FEB 06...	1515	1210	6.5	6.0	3.0	11.2
MAY 01...	1445	462	7.0	21.5	16.0	8.1
SEP 05...	1440	295	6.9	32.5	24.0	7.2

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 31...	68	45	6	.6	40	--	<.02	<.02	.04	10
FEB 06...	41	40	11	.4	40	--	.13	.05	.05	4.0
MAY 01...	62	60	10	1.1	2300	--	.14	<.02	.10	6.0
SEP 05...	87	60	7	1.2	90	16	.09	<.02	.04	4.0

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
FEB 28...	1020	740	7.5	3.0	8	16

02198500 SAVANNAH RIVER NEAR CLYO, GA.
(National stream-quality accounting network station)
(Radiochemical program station)

LOCATION.--Lat 32°31'30", long 81°15'45", Effingham County, Ga.-Jasper County, S.C., Hydrologic Unit 03060109, on downstream side of center pier of drawspan of bridge on Seaboard Coast Line Railroad, 3.0 m (4.8 km) north of Clyo, and at mile 60.9 (98.0 km).

DRAINAGE AREA.--9,850 mi^2 (25,510 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1929 to September 1933, October 1937 to current year. Monthly discharge only for some periods, published in WSP 1303. Gage-height records collected at same site 1921-43 by National Weather Service (unpublished prior to 1933).

REVISED RECORDS.--WSP 1112: 1940.

GAGE.--Water-stage recorder. Datum of gage is 13.41 ft (4.09 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 31, 1933, nonrecording gage at same site and at datum 4.00 ft (1.22 m) higher. Jan. 31, 1933 to June 12, 1945, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated by Lake Burton, Mathis Reservoir, Hartwell Lake, and Clark Hill Reservoir. (See "Lakes and Reservoirs in Savannah River Basin," stations 02178500, 02179500, 02187250, and 02194500).

AVERAGE DISCHARGE.--45 years, 12,100 ft^3/s (343 m^3/s), 16.69 in/yr (423.9 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 270,000 ft^3/s (7,650 m^3/s) Oct. 6, 1929, gage height, 29.7 ft (9.05 m), present datum (from information by Corps of Engineers), from rating curve extended above 120,000 ft^3/s (3,400 m^3/s); minimum daily, 1,950 ft^3/s (55.2 m^3/s) Sept. 27, 1931.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 38,700 ft^3/s (1,100 m^3/s) Feb. 3, gage height, 16.81 ft (5.124 m); minimum daily, 5,670 ft^3/s (161 m^3/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7950	8650	15000	11900	32000	15400	14100	9950	12900	7890	8050	7700
2	7840	8060	14800	12100	36800	13500	13700	9770	12000	7880	7800	7530
3	7860	7550	14700	12200	38400	12700	12600	9670	11700	7880	7380	7430
4	8000	7460	14800	11800	36400	12500	11300	9970	11600	7880	7350	7620
5	8030	7420	15300	11400	33400	12600	10300	10600	11400	7880	7430	8130
6	7820	7480	15600	11200	31200	12600	9910	11300	11000	7220	7450	8480
7	7550	7780	15700	11200	29500	12400	9840	11700	10300	6820	7490	8850
8	7480	8420	15700	11400	28600	11600	9690	11700	10000	7090	7770	8390
9	7600	8780	15700	11400	27900	10700	9510	11300	10400	7450	7870	7710
10	7840	9130	15700	11200	27400	10500	9430	10700	10700	7500	7730	7340
11	8120	10600	15800	11100	26600	10800	9390	11300	11100	7350	7740	7230
12	7950	11700	16400	11700	25800	11400	9160	12500	11300	7060	8010	7120
13	7480	12300	16400	12500	25200	12300	9020	13500	11000	6910	8230	7000
14	7450	12800	16600	13200	24900	13100	9310	14300	10200	7130	8110	6840
15	7720	13200	16800	13800	25000	13800	9540	15200	9890	7310	7840	6770
16	7950	13500	16400	14400	25300	14200	10400	16000	10300	8240	7550	6870
17	7870	13700	16000	15100	25600	14300	11300	16800	10600	8750	7370	7030
18	7720	13900	16000	15600	25700	14000	11500	17600	10800	9170	7410	7060
19	7400	14200	15800	16100	25300	13700	10700	18100	10700	9290	7530	6670
20	7050	14500	15800	16400	24900	13300	9740	18200	9980	8990	7670	6350
21	6870	14700	15200	16400	24700	12800	9410	18000	8940	8680	7760	6750
22	6940	14900	13000	16500	24800	12200	9610	17700	8210	8440	7780	7310
23	7110	15100	12800	16800	24600	11800	9910	17400	8070	8130	7420	7100
24	7200	14900	12800	17300	23900	11500	9820	17000	8040	7850	7050	6860
25	7270	14800	12700	18400	22500	11500	9560	16400	7950	7710	6930	6740
26	7250	14600	12400	19900	20800	11500	9270	15600	7930	7500	6910	6730
27	7270	14700	11700	21700	19000	11500	9040	15000	7920	7320	6860	6700
28	7570	14900	11000	24100	17300	11600	9400	14800	7920	7530	7090	6600
29	8090	15000	11100	26600	---	12300	10000	14700	7910	8010	7240	5670
30	8610	15100	11400	28300	---	13000	10200	14600	7900	8020	7170	6840
31	8850	---	11800	29300	---	13700	---	14100	---	8010	7470	---
TOTAL	237710	359830	450900	491000	753500	388800	306660	435460	298660	242890	233460	215420
MEAN	7668	11990	14550	15840	26910	12540	10220	14050	9955	7835	7531	7181
MAX	8850	15100	16800	29300	38400	15400	14100	18200	12900	9290	8230	8850
MIN	6870	7420	11000	11100	17300	10500	9020	9670	7900	6820	6860	5670

CAL YR 1977 TOTAL 4540690 MEAN 12440 MAX 32200 MIN 6870 MEAN† 12448 CFSM† 1.26 IN† 17.10
WTR YR 1978 TOTAL 4414290 MEAN 12090 MAX 38400 MIN 5670 MEAN† 12144 CFSM† 1.23 IN† 16.70

† Adjusted for change in contents in Lake Burton, Mathis Reservoir, Hartwell Lake, and Clark Hill Reservoir.

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 1938 to April 1939, October 1964 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January 1974 to July 1977.
WATER TEMPERATURES: May 1938 to April 1939, January 1974 to July 1977.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum daily, 110 micromhos June 14, 1977; minimum daily, 42 micromhos July 5, 1974.
WATER TEMPERATURES: Maximum daily, 27.0°C Aug. 23, 1975, July 9, 13, 1977; minimum daily recorded, 4.0°C Jan. 22-24, 26, 30, Feb. 1.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum daily, 110 micromhos July 14; minimum daily, 49 micromhos Dec. 20.
WATER TEMPERATURES: Maximum daily, 27.0°C July 9, 13; minimum daily recorded, 4.0°C Jan. 22-24, 26, 30, Feb. 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
03...	1555	7980	74	6.8	23.0	23.5	7.2
20...	1415	7032	76	7.2	--	17.5	8.3
NOV							
01...	0940	8710	84	7.2	19.0	17.0	7.4
09...	1500	8780	--	--	--	--	--
17...	1430	13570	60	6.8	--	16.0	8.2
DEC							
05...	1545	15200	64	6.9	22.0	14.0	7.5
07...	1500	15860	63	6.7	--	13.0	8.2
JAN							
11...	1400	11300	69	6.5	--	8.0	10.4
FEB							
07...	0945	29600	49	6.6	4.0	-3.0	10.4
08...	1530	29400	50	6.7	--	5.0	10.4
MAR							
06...	1630	12800	72	7.0	19.0	7.0	10.5
08...	1400	11580	72	6.9	--	10.0	10.1
APR							
05...	1400	10260	71	6.8	--	18.0	7.5
MAY							
02...	0830	9790	79	7.2	18.0	16.0	7.9
03...	1400	9740	79	6.9	--	17.0	7.9
JUN							
05...	1615	11400	80	6.6	22.0	21.5	7.9
07...	1345	10210	75	6.8	--	23.0	7.0
JUL							
06...	1300	7880	80	7.0	--	25.0	7.1
10...	1600	7500	79	7.0	29.0	26.0	7.0
AUG							
07...	1600	7500	82	7.2	27.0	25.0	6.9
09...	1350	7880	84	6.8	--	26.0	6.5
SEP							
05...	1645	8240	94	7.0	27.5	25.0	6.4
07...	1430	8924	83	7.0	--	26.5	6.5

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT										
03...	20	13	--	27	.5	90	--	--	--	--
20...	--	1	--	--	--	--	75	263	16	0
NOV										
01...	50	17	--	18	1.0	230	--	--	--	--
17...	--	10	--	--	--	--	307	260	13	0
DEC										
05...	40	16	--	14	1.3	90	--	--	--	--
07...	--	9	--	--	--	--	180	94	15	0
JAN										
11...	--	15	--	--	--	--	420	87	18	1
FEB										
07...	90	18	--	14	--	<30	--	--	--	--
08...	--	15	--	--	--	--	K42	60	12	0
MAR										
06...	75	26	--	29	3.6	2300	--	--	--	--
08...	--	30	--	--	--	--	290	K44	15	0
APR										
05...	--	25	--	--	--	--	152	K8	17	0
MAY										
02...	50	25	--	15	.9	90	--	--	--	--
03...	--	20	--	--	--	--	109	110	16	0
JUN										
05...	75	22	--	16	.9	90	--	--	--	--
07...	--	25	--	--	--	--	168	60	16	0
JUL										
06...	--	--	20	--	--	--	48	263	16	0
10...	55	20	--	--	--	390	--	--	--	--
AUG										
07...	40	15	--	--	--	--	--	--	--	--
09...	--	--	10	--	--	--	K30	K32	19	0
SEP										
05...	50	18	--	--	.5	40	--	--	--	--
07...	--	--	15	--	--	--	K42	102	16	0

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO2)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)
OCT										
03...	--	--	--	--	--	--	--	--	--	--
20...	4.6	1.2	7.8	1.5	22	0	18	2.2	5.3	6.0
NOV										
01...	--	--	--	--	--	--	--	--	--	--
17...	3.5	1.1	6.3	1.3	24	0	20	6.1	4.5	5.1
DEC										
05...	--	--	--	--	--	--	--	--	--	--
07...	4.1	1.2	6.3	1.8	28	0	23	8.9	5.3	4.7
JAN										
11...	5.2	1.2	7.1	1.5	21	0	17	11	5.8	5.3
FEB										
07...	--	--	--	--	--	--	--	--	--	--
08...	3.3	1.0	5.1	1.3	16	0	13	5.1	4.8	3.2
MAR										
06...	--	--	--	--	--	--	--	--	--	--
08...	4.3	1.1	7.8	1.4	23	0	19	4.6	7.2	8.6
APR										
05...	--	1.2	8.2	1.3	22	0	18	5.6	7.2	6.7
MAY										
02...	--	--	--	--	--	--	--	--	--	--
03...	4.6	1.1	8.5	1.3	27	0	22	5.4	5.9	5.2
JUN										
05...	--	--	--	--	--	--	--	--	--	--
07...	4.3	1.3	8.1	1.3	28	0	23	7.1	6.3	5.6
JUL										
06...	4.4	1.2	8.8	1.0	--	--	19	--	5.6	6.6
10...	--	--	--	--	--	--	20	--	--	--
AUG										
07...	--	--	--	--	--	--	21	--	--	--
09...	5.3	1.3	9.5	1.4	--	--	19	--	6.2	5.8
SEP										
05...	--	--	--	--	--	--	20	--	--	--
07...	4.5	1.2	10	1.4	--	--	21	--	7.9	7.6

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)
OCT										
03...	--	--	--	18	.41	<.02	--	.28	--	--
20...	.0	10	53	--	.37	.03	--	--	--	.13
NOV										
01...	--	--	--	22	.41	.05	.33	.38	--	--
17...	.1	11	51	--	.27	.04	--	--	--	.66
DEC										
05...	--	--	--	9	.18	.10	.15	.25	--	--
07...	.0	10	56	--	.23	.02	--	--	--	.18
JAN										
11...	.0	8.8	61	--	.25	.05	--	--	--	.87
FEB										
07...	--	--	--	4	.19	<.02	--	<.10	--	--
08...	.1	9.1	48	--	.20	.01	.22	.23	.00	.55
MAR										
06...	--	--	--	13	.26	.14	.49	.63	--	--
08...	.0	7.7	56	--	.28	.17	.36	.53	.04	.49
APR										
05...	.1	8.1	62	--	.38	.09	.30	.39	.24	.15
MAY										
02...	--	--	--	13	.43	.05	.43	.48	--	--
03...	.1	9.2	60	--	.35	.07	.24	.31	.02	.29
JUN										
05...	--	--	--	24	.34	<.02	--	.20	--	--
07...	.0	9.2	56	--	.43	.05	.30	.35	.14	.21
JUL										
06...	.0	9.2	58	--	.55	.16	.19	.35	.17	.18
10...	--	--	--	22	.60	.02	--	--	--	--
AUG										
07...	--	--	--	--	.50	.06	--	--	--	--
09...	.1	9.4	64	--	.57	.04	.32	.36	.00	.46
SEP										
05...	--	--	--	13	.47	.02	--	--	--	--
07...	.1	9.6	72	--	.45	.02	.98	1.0	.00	1.0

DATE	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)	PHYTOPLANKTON, TOTAL (CELLS PER ML)	TRITIUM IN WATER MOLECULES (TU)	TRITIUM WATER MOLECULES COUNT ERROR (TU)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT										
03...	.69	3.1	.10	--	5.0	--	--	1830	50.0	--
20...	--	--	.10	.06	10	--	--	--	--	100
NOV										
01...	.79	3.5	.12	--	5.0	--	--	3080	80.0	--
17...	--	--	.08	.05	8.7	--	120	--	--	100
DEC										
05...	.43	1.9	.06	--	4.0	--	--	653	18.0	--
07...	--	--	.07	.02	--	12	--	--	--	100
JAN										
11...	--	--	.06	.03	5.9	--	--	--	--	100
FEB										
07...	--	--	.03	--	3.0	--	--	513	16.0	--
08...	.43	1.9	.04	.01	2.4	--	--	--	--	100
MAR										
06...	.89	3.9	.11	--	9.0	--	--	1550	40.0	--
08...	.81	3.6	.08	.03	--	--	0	--	--	100
APR										
05...	.77	3.4	.12	.04	6.6	--	--	--	--	100
MAY										
02...	.91	4.0	.15	--	5.0	--	--	1380	30.0	--
03...	.66	2.9	.09	.05	7.3	--	700	--	--	100
JUN										
05...	.54	2.4	.09	--	5.0	--	--	--	--	--
07...	.78	3.5	.09	.03	--	8.2	530	--	--	100
JUL										
06...	.90	4.0	.12	.07	5.9	--	530	--	--	100
10...	--	--	.14	--	6.0	--	--	950	20.0	--
AUG										
07...	--	--	.15	--	6.0	--	--	1050	20.0	--
09...	.93	4.1	.09	.06	3.4	--	510	--	--	100
SEP										
05...	--	--	.21	--	4.0	--	--	1110	20.0	--
07...	1.5	6.4	.10	.05	--	7.9	500	--	--	100

02198500 SAVANNAH RIVER NEAR CLYO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)
DEC 07...	1	1	0	0	<10	0	2	0	8	2	1000	240
MAR 08...	0	0	0	1	--	2	--	0	5	2	1600	100
JUN 07...	1	1	1	0	<10	0	0	0	5	2	1400	200
SEP 07...	1	1	1	2	10	0	1	1	3	2	1100	80

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
DEC 07...	6	7	50	20	<.5	<.5	0	0	0	0	10	10
MAR 08...	30	4	40	10	<.5	<.5	0	0	1	0	30	30
JUN 07...	6	5	90	20	<.5	<.5	0	0	0	0	10	20
SEP 07...	1	1	90	20	<.5	<.5	0	0	1	0	10	20

DATE	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)
NOV 09...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 08...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 03...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 09...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	SIMA-ZINE TOTAL COUL-SON COND. (UG/L)
NOV 09...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 08...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 03...	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
AUG 09...	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-AZINON, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ETHION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)
NOV 09...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 03...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA-THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI-THION, TOT. IN BOTTOM MATL. (UG/KG)	PARA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TRI-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4-D, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4,5-T TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SILVEX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SIMA-ZINE IN BOTTOM MATERI-AL (UG/KG DRY SOLIDS)
NOV 09...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 03...	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--

DATE	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)
NOV 09...	<.6	1.0	2.3	.6	2.1	.7	.08	.02
AUG 09...	.7	.7	2.3	.6	2.2	.6	.05	<.01

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN

02178500 **LAKE BURTON**.--Lat 34°47'37", long 83°32'26", Rabun County, Hydrologic Unit 03060102, on Tallulah River, 5.5 mi (8.8 km) downstream from bridge on U.S. Highway 76, 10 mi (16 km) southwest of Clayton, Ga. DRAINAGE AREA, 115 mi² (298 km²). PERIOD OF RECORD, October 1929 to current year. Datum of gage is at mean sea level (levels by Georgia Power Co.).

Lake is formed by concrete gravity dam. Spillway, crest elevation, 1,860.0 ft (566.93 m) is equipped with eight gates 22 ft (6.71 m) wide by 6.6 ft (2.01 m) high. Dam completed in 1919. Total capacity at elevation 1,866.6 ft (568.94 m), top of gates, is 108,000 acre-ft (133 hm³), of which 106,000 acre-ft (131 hm³) is usable storage. Lake is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1860.2	90500	-	-
Oct. 31................	1858.4	86000	-4500	-73
Nov. 30................	1860.7	91800	+5800	+97
Dec. 31................	1857.4	83600	-8200	-133
CAL YR 1977	-	-	+16400	+23
Jan. 31................	1858.1	85200	+1600	+26
Feb. 28................	1852.0	71200	-14000	-252
Mar. 31................	1857.7	84300	+13100	+213
Apr. 30................	1863.1	98100	+13800	+232
May 31................	1865.4	105000	+6900	+112
June 30................	1864.2	101000	-4000	-67
July 31................	1863.3	98600	-2400	-39
Aug. 31................	1863.1	98100	-500	-8
Sept. 30................	1862.8	97300	-800	-13
WTR YR 1978	-	-	+6800	+9

† Elevation at 0700 on day following that shown in first column.

02179500 **MATHIS RESERVOIR**.--Lat 34°47'03", long 83°24'57", Rabun County, Hydrologic Unit 03060102, on Tallulah River, 1 mi (1.6 km) upstream from bridge on U.S. Highway 23, 1.8 mi (2.9 km) south of Lakemont, Ga. DRAINAGE AREA, 151 mi² (391 km²). PERIOD OF RECORD, October 1929 to current year. Datum of gage is at mean sea level (levels by Georgia Power Co.).

Reservoir is formed by concrete slab and buttress dam. Spillway, crest elevation, 1,682.75 ft (512.90 m) is equipped with 16 gates 15.8 ft (4.82 m) wide by 6.85 ft (2.09 m) high. Dam completed in 1915. Total capacity at elevation 1,689.6 ft (514.99 m), top of gates, is 31,200 acre-ft (38.5 hm³), of which 23,000 acre-ft (28.4 hm³) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1687.8	29800	-	-
Oct. 31................	1687.1	29200	-600	-10
Nov. 30................	1686.7	28900	-300	-5
Dec. 31................	1685.6	38100	-800	-13
CAL YR 1977	-	-	-2400	-3
Jan. 31................	1686.4	28700	+600	+10
Feb. 28................	1680.1	24300	-4400	-79
Mar. 31................	1688.1	30000	+5700	+93
Apr. 30................	1687.5	29500	-500	-8
May 31................	1687.9	29800	+300	+5
June 30................	1687.6	29600	-200	-3
July 31................	1687.6	29600	0	0
Aug. 31................	1687.6	29600	0	0
Sept. 30................	1687.8	29800	+200	+3
WTR YR 1978	-	-	0	0

† Elevation at 0700 on day following that shown in first column.

LAKES AND RESERVOIRS IN SAVANNAH RIVER BASIN--Continued

02187250 HARTWELL LAKE.--Lat 34°21'25", long 82°49'20", Hart County, Ga.-Anderson County, S.C., Hydrologic Unit 03060103, in right spillway elevator tower of dam on Savannah River, 0.9 mi (1.4 km) upstream from Big Generostee Creek, 6.4 mi (10.3 km) east of Hartwell, Ga., and at mile 305.0 (490.7 km). DRAINAGE AREA, 2,088 mi^2 (5,408 km^2). PERIOD OF RECORD, October 1959 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

Lake is formed by concrete dam with earth embankments at each end; storage began in February 1961, dam completed in 1961. Usable capacity, 1,708,600 acre-ft (2,110 hm^3) between elevations 625.0 ft (190.50 m), normal limit of drawdown, and 665.0 ft (202.69 m), top of gates. Dead storage below 625.0 ft (190.50 m), 1,134,100 acre-ft (1,400 hm^3). Elevation of spillway crest, 630.0 ft (192.02 m). Water is used for flood control, generation of power, and navigation. Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 2,871,000 acre-ft (3,540 hm^3) Apr. 8, 1964, elevation, 665.47 ft (202.835 m); minimum, after first filling, 1,182,000 acre-ft (1,460 hm^3) Oct. 16, 1961, elevation, 626.70 ft (191.018 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,659,000 acre-ft (3,279 hm^3) May 21, elevation, 661.92 ft (201.753 m); minimum, 2,322,500 acre-ft (2,864 hm^3) Sept. 29, elevation, 655.78 ft (199.882 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	656.00	2333800	-	-
Oct. 31................	658.65	2475100	+141300	+2298
Nov. 30................	658.49	2466400	-8700	-146
Dec. 31................	656.84	2377900	-88500	-1439
CAL YR 1977	-	-	-13200	-18
Jan. 31................	660.62	2584600	+206700	+3362
Feb. 28................	658.62	2473500	-111100	-2000
Mar. 31................	659.80	2538500	+65000	+1057
Apr. 30................	660.39	2571600	+33100	+556
May 31................	660.56	2581200	+9600	+156
June 30................	659.04	2496400	-84800	-1425
July 31................	656.99	2385800	-110600	-1799
Aug. 31................	657.86	2432200	+46400	+755
Sept. 30................	655.83	2325100	-107100	-1800
WTR YR 1978	-	-	-8700	-12

02194500 CLARK HILL RESERVOIR.--Lat 33°39'40", long 82°12'00", Columbia County, Ga.-McCormick County, S.C., Hydrologic Unit 03060103, in left spillway elevator tower of dam on Savannah River, 1.6 mi (2.6 km) west of Clarks Hill, 3.7 mi (6.0 km) upstream from Kiokee Creek, and at mile 237.7 (382.5 km). DRAINAGE AREA, 6,150 mi^2 (15,900 km^2), approximately. PERIOD OF RECORD, October 1951 to current year. REVISED RECORDS, WSP 1703: 1953. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to Oct. 1, 1952, nonrecording gage at same site and datum.

Lake is formed by concrete dam with earth dam at each end; storage began in December 1951, dam completed in 1952. Usable capacity, 1,730,000 acre-ft (2,130 hm) between elevations 305.0 ft (92.96 m), normal limit of drawdown, and 335.0 ft (102.11 m), top of spillway gates. Dead storage below 305.0 ft (92.96 m), 1,170,000 acre-ft (1,440 hm^3). Elevation of spillway crest, 300.0 ft (91.44 m). Water is used for flood control, generation of power, and navigation. Capacity table furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 3,037,600 acre-ft (3,750 hm^3) Apr. 9, 1964, elevation, 336.72 ft (102.632 m); minimum, 897,900 acre-ft (1,110 hm^3) Feb. 1, 1956, elevation, 296.48 ft (90.367 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,812,600 acre-ft (3,468 hm^3) Jan. 29, elevation, 333.88 ft (101.767 m); minimum, 2,156,400 acre-ft (2,659 hm^3) Oct. 25, elevation, 324.94 ft (99.042 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	325.98	2228600	-	-
Oct. 31................	326.73	2281100	+52500	+854
Nov. 30................	327.30	2321000	+39900	+671
Dec. 31................	326.59	2271300	-49700	-808
CAL YR 1977	-	-	+4200	+6
Jan. 31................	333.10	2751800	+480500	+7814
Feb. 28................	328.24	2386800	-365000	-6572
Mar. 31................	329.94	2805800	+119000	+1935
Apr. 30................	329.86	2500200	-5600	-94
May 31................	330.22	2527200	+27000	+439
June 30................	329.42	2469400	-57800	-971
July 31................	328.13	2379100	-90300	-1469
Aug. 31................	327.63	2344100	-35000	-569
Sept. 30................	326.57	2269900	-74200	-1247
WTR YR 1978	-	-	+41300	+57

02202000 OGEECHEE RIVER AT SCARBORO, GA.

LOCATION.--Lat 32°42'38", long 81°52'46", Jenkins County, Hydrologic Unit 03060202, at abandoned highway bridge at Scarboro, 3.5 mi (5.6 km) downstream from Sculls Creek, 6.5 mi (10.5 km) upstream from Horse Creek, and 7.5 mi (12.1 km) southeast of Millen.

DRAINAGE AREA.--1,940 mi^2 (5,020 km^2), approximately.

PERIOD OF RECORD.--January 1970 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for the water years 1937-71 are published in reports of the Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
31...	1405	430	7.4	19.0	15.5	8.5
FEB						
06...	1405	6460	6.5	5.0	3.0	10.6
MAY						
01...	1350	1110	7.2	19.5	16.0	7.8
SEP						
05...	1330	300	7.4	32.0	26.5	6.3

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
31...	82	30	6	.3	40	--	.09	<.02	.04	4.0
FEB										
06...	40	80	24	.6	<30	--	.18	<.02	.04	6.0
MAY										
01...	68	60	12	.9	150	--	.15	<.02	.10	6.0
SEP										
05...	97	40	7	.9	430	35	.22	<.02	.06	3.0

02202190 OGEECHEE RIVER NEAR OLIVER, GA.

LOCATION.--Lat 32°29'45", long 81°33'11", Screven-Bulloch County line, Hydrologic Unit 03060202, at bridge on State Highway 24, 0.3 mi (0.5 km) upstream from Ogeechee Creek, and 2.0 mi (3.2 km) southwest of Oliver.

DRAINAGE AREA.—2,230 mi^2 (5,780 km^2), approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA. WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 03...	1500	505	7.3	23.0	21.5	6.3
NOV 01...	0825	437	7.4	15.0	15.5	8.4
DEC 05...	1455	1170	7.0	21.0	12.0	8.3
JAN 11...	1030	2300	6.8	-4.0	8.0	9.6
FEB 07...	0830	9120	6.3	-5.0	3.0	10.5
MAR 06...	1540	3170	7.0	18.0	7.5	9.7
APR 03...	1430	2580	7.1	29.5	19.5	6.6
MAY 02...	0700	1690	7.0	17.0	16.0	7.1
JUN 05...	1510	912	7.1	29.0	25.0	5.8
JUL 10...	1515	308	7.6	30.0	29.0	7.5
AUG 07...	1430	310	7.1	26.5	27.0	6.3
SEP 05...	1745	308	7.3	27.0	27.0	6.9

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 03...	76	65	7	.5	40	--	<1	.11	.02	.04	6.0
NOV 01...	87	40	6	.2	70	--	2	.09	<.02	.05	3.0
DEC 05...	66	60	9	.6	230	--	<1	.02	.06	.04	8.0
JAN 11...	57	65	3	.7	90	--	1	<.02	<.02	.03	6.0
FEB 07...	37	160	26	--	40	--	1	.16	<.02	.03	4.0
MAR 06...	56	50	10	2.0	40	--	1	.05	<.02	.06	6.0
APR 03...	71	75	8	1.2	90	--	<1	.02	<.02	.03	8.5
MAY 02...	71	60	10	.5	<30	--	4	.13	<.02	.10	7.0
JUN 05...	88	75	7	.9	40	--	5	.26	.13	.06	6.0
JUL 10...	84	30	5	1.0	40	31	<1	.22	.04	.05	5.0
AUG 07...	109	50	6	--	--	36	1	.22	.04	.08	4.0
SEP 05...	96	50	6	.6	40	30	<1	.20	<.02	.05	4.0

02202500 OGEECHEE RIVER NEAR EDEN, GA.
(National stream-quality accounting network station)

LOCATION.--Lat 32°11'29", long 81°24'58", Effingham-Bryan County line, Hydrologic Unit 03060202, on right bank 600 ft (183 m) downstream from bridge on U.S. Highways 25, 80, and 280, 2 mi (3.2 km) west of Eden, 2 mi (3.2 km) upstream from Seaboard Coast Line Railroad bridge, and 3 mi (4.8 km) upstream from Black Creek.
DRAINAGE AREA.--2,650 mi^2 (6,860 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1937 to current year.
GAGE.--Water-stage recorder. Datum of gage is 19.64 ft (5.99 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Oct. 1, 1939, nonrecording gage at site 600 ft (183 m) upstream at same datum.
REMARKS.--Records good.
AVERAGE DISCHARGE.--41 years, 2,392 ft^3/s (67.7 m^3/s), 12.26 in/yr (311.4 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,300 ft^3/s (745 m^3/s) Mar. 31, 1944, gage height, 14.7 ft (4.48 m); minimum observed, 131 ft^3/s (3.71 m^3/s) Sept. 12-14, 1954.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1840, 20 ft (6.10 m) in October 1929, from data furnished by Central of Georgia Railway Co.

Flood of January 1925, reached a stage of 19.5 ft (5.94 m), from information as explained above.

Flood of April 1936, reached a stage of 15.2 ft (4.63 m), from information as explained above, discharge, 30,000 ft^3/s (850 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,200 ft^3/s (487 m^3/s) Feb. 2, gage height, 12.45 ft (3.795 m); minimum, 233 ft^3/s (6.60 m^3/s) Sept. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	721	490	844	2020	16800	3410	2820	2140	1490	468	383	312
2	739	481	903	2030	17000	3330	2730	1960	1300	455	358	365
3	707	481	958	2030	15700	3310	2670	1800	1150	441	342	413
4	631	487	1010	2010	15100	3290	2610	1760	1060	440	332	411
5	583	505	1060	1980	15200	3260	2520	1710	995	441	328	402
6	559	538	1130	1970	14500	3260	2410	1690	962	420	319	387
7	545	579	1240	2000	13000	3230	2290	1690	979	400	318	345
8	528	645	1400	2050	11300	3210	2190	1730	939	390	330	319
9	510	690	1540	2120	10000	3230	2100	1900	888	390	335	303
10	496	720	1590	2150	8970	3370	2020	2100	894	383	343	295
11	490	744	1540	2180	8080	3510	1930	2340	914	372	352	288
12	497	774	1470	2210	7260	3670	1830	2540	893	361	380	278
13	500	801	1440	2280	6580	3810	1780	2670	880	350	497	268
14	501	825	1460	2370	6020	3960	1810	2720	884	343	727	261
15	507	856	1520	2520	5540	4130	1780	2730	883	337	754	253
16	509	898	1580	2740	5180	4260	1790	2760	869	378	897	251
17	516	953	1710	2970	4910	4410	1810	2840	846	496	922	248
18	532	1020	1890	3120	4750	4540	1820	3000	831	758	901	243
19	546	1080	2030	3340	4620	4600	1950	3150	820	1130	866	241
20	554	1170	2090	3720	4500	4580	1960	3190	806	1410	776	243
21	551	1260	2160	4170	4400	4480	1950	3000	784	1300	685	240
22	532	1340	2140	4720	4280	4340	1950	2740	734	1030	628	244
23	504	1400	2090	5120	4120	4230	1950	2660	661	791	583	250
24	479	1370	2050	5260	3930	4220	1960	2780	601	645	535	247
25	462	1270	2020	5580	3760	4250	1990	2970	590	551	497	243
26	466	1110	2000	6430	3630	4210	2130	2910	569	500	467	242
27	473	960	2000	7720	3520	4010	2250	2700	530	462	426	239
28	502	858	2020	9080	3450	3740	2360	2440	502	432	382	234
29	506	803	2030	10100	---	3480	2390	2150	487	402	360	233
30	507	797	2030	11600	---	3210	2310	1890	477	401	338	239
31	499	---	2030	14500	---	2980	---	1670	---	400	319	---
TOTAL	16652	25905	50975	132090	226100	117520	64060	74330	25218	17077	15680	8537
MEAN	537	864	1644	4261	8075	3791	2135	2398	841	551	506	285
MAX	739	1400	2160	14500	17000	4600	2820	3190	1490	1410	922	413
MIN	462	481	844	1970	3450	2980	1780	1670	477	337	318	233
CFSM	.20	.33	.62	1.61	3.05	1.43	.81	.91	.32	.21	.19	.11
IN.	.23	.36	.72	1.85	3.17	1.65	.90	1.04	.35	.24	.22	.12

CAL YR 1977 TOTAL 826932 MEAN 2266 MAX 12600 MIN 263 CFSM .86 IN 11.61
WTR YR 1978 TOTAL 774144 MEAN 2121 MAX 17000 MIN 233 CFSM .80 IN 10.87

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to current year.
WATER TEMPERATURES: October 1972 to current year.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 183 micromhos Sept. 13, 1978; minimum, 28 micromhos Mar. 29, 30, 1976.
WATER TEMPERATURES: Maximum, 32.0°C July 9-11, 13, 15, 21, 22, 1977; minimum, 1.5°C Jan. 19-21, 1977.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 183 micromhos Sept. 13; minimum, 35 micromhos Feb. 2.
WATER TEMPERATURES: Maximum, 31.0°C June 28, 29, July 5; minimum, 3.5°C Feb. 8.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
05...	1200	582	78	6.0	21.5	8.2
12...	1045	500	--	--	20.5	--
NOV						
01...	1300	488	80	6.1	18.0	8.8
DEC						
06...	1315	1130	60	6.6	15.0	8.7
JAN						
17...	1400	2990	55	6.8	5.5	11.6
FEB						
07...	1400	12900	43	6.5	4.0	10.5
MAR						
07...	1355	3230	51	6.6	9.5	11.4
APR						
04...	1300	2610	64	6.6	20.0	7.0
MAY						
16...	1130	2750	57	6.5	19.5	7.2
JUN						
13...	1300	880	88	6.2	27.0	6.9
JUL						
18...	1200	743	93	6.7	28.0	6.6
AUG						
01...	1150	384	124	7.6	29.0	7.0
SEP						
06...	1230	387	99	6.6	27.0	8.7

DATE	TUR-BID-ITY (NTU)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
OCT												
05...	2.0	70	53	23	7.4	1.1	4.6	1.2	26	0	21	2.7
12...	3.0	--	--	--	--	--	--	--	--	--	--	--
NOV												
01...	2.0	70	3800	30	10	1.1	7.0	1.3	32	0	26	3.2
DEC												
06...	4.0	110	600	19	6.1	1.0	5.2	1.3	20	0	16	--
JAN												
17...	7.0	130	470	15	4.5	.9	4.4	1.0	7	0	6	6.2
FEB												
07...	25	30	43	9	2.9	.5	2.6	1.1	8	0	7	6.5
MAR												
07...	6.0	26	3700	--	--	--	--	--	12	0	10	4.4
APR												
04...	4.0	43	73	21	6.9	1.0	4.3	1.2	20	0	16	3.5
MAY												
16...	5.0	57	180	21	6.6	1.0	4.3	1.0	20	0	16	5.6
JUN												
13...	5.0	K7	36	30	10	1.3	7.2	1.2	35	0	29	5.6
JUL												
18...	4.0	63	53	26	8.3	1.2	9.0	1.3	--	--	19	13
AUG												
01...	5.0	K16	K20	28	9.2	1.2	14	1.6	--	--	35	13
SEP												
06...	2.0	38	360	30	10	1.1	8.4	1.1	--	--	29	8.4

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT												
05...	5.8	.0	13	64	.11	.01	--	--	--	--	--	.04
12...	--	--	--	--	--	--	--	--	--	--	--	--
NOV												
01...	5.7	.0	12	63	.08	.00	--	--	--	--	--	.04
DEC												
06...	--	--	--	60	.01	.02	--	--	--	.24	--	.04
JAN												
17...	5.7	.0	11	62	.01	.00	--	--	--	.46	--	.04
FEB												
07...	3.7	.0	7.1	50	.09	.00	.54	.54	.00	.65	.63	.04
MAR												
07...	5.4	.1	5.4	54	.02	.01	.34	.35	.00	.43	.37	.02
APR												
04...	6.0	.1	3.1	48	.02	.03	.63	.66	.26	.40	.68	.05
MAY												
16...	4.5	.0	9.6	64	.05	.00	.51	.51	.03	.48	.56	.05
JUN												
13...	6.1	.1	11	66	.23	.01	.43	.44	.00	.49	.67	.08
JUL												
18...	4.8	.0	9.1	78	.26	.03	.41	.44	.00	.44	.70	.05
AUG												
01...	6.0	.1	11	99	.22	.01	.43	.44	.13	.31	.66	.06
SEP												
06...	5.5	.0	11	76	.19	.00	.56	.56	.00	.59	.75	.06

DATE	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT												
05...	--	--	9.0	.5	--	--	--	--	--	11	17	46
12...	--	--	--	--	--	--	--	--	--	6	8.1	100
NOV												
01...	--	4.5	--	--	--	--	--	--	--	19	25	40
DEC												
06...	.02	23	--	--	--	--	--	--	--	19	59	58
JAN												
17...	.02	--	7.9	.2	--	--	--	--	--	20	161	80
FEB												
07...	.02	17	--	--	--	--	--	--	--	28	993	57
MAR												
07...	.01	12	--	--	130	0.079	0.236	0.190	0.000	3	26	73
APR												
04...	.02	5.9	--	--	--	--	--	--	--	11	81	100
MAY												
16...	.02	--	15	1.2	130	6.53	7.09	1.52	0.950	17	126	55
JUN												
13...	.05	7.6	--	--	45	--	--	--	--	5	13	100
JUL												
18...	.03	--	1.1	.9	230	--	--	--	--	22	44	75
AUG												
01...	.05	8.2	--	--	1600	--	--	--	--	11	11	69
SEP												
06...	.05	7.1	--	--	--	--	--	--	--	11	11	50

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS-SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO)	COBALT, DIS-SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	IRON, DIS-SOLVED (UG/L AS FE)
OCT												
05...	0	0	0	0	10	1	0	0	4	2	1200	960
JAN												
17...	1	1	0	0	<10	0	0	0	7	5	610	330
MAY												
16...	1	1	0	0	10	2	0	0	2	1	1500	680
JUL												
18...	1	1	0	3	10	0	0	0	2	4	520	290

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, TOTAL (UG/L AS SE)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT												
05...	3	1	50	30	<.5	<.5	0	0	0	0	0	0
JAN												
17...	6	3	40	30	<.5	<.5	0	0	0	0	20	20
MAY												
16...	14	--	40	20	<.5	<.5	0	0	0	0	10	10
JUL												
18...	30	--	80	30	.5	.5	0	0	0	0	30	10

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
MAR						
07...	0	0	0	76	99	100

02202500 OGEECHEE RIVER NEAR EDEN, GA.—Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	82	65	90	65	62	60	55	53	40	36	46	46
2	80	73	83	69	68	63	57	55	38	35	48	46
3	87	78	86	69	69	68	58	57	38	36	48	47
4	88	78	92	71	68	66	58	57	40	38	50	48
5	83	70	95	85	67	62	57	56	41	39	51	50
6	85	58	95	87	62	59	56	55	41	40	51	50
7	90	55	98	86	59	54	56	55	44	43	52	51
8	88	79	93	78	54	52	57	56	44	42	52	51
9	89	84	78	70	56	53	59	57	45	43	52	51
10	89	82	71	67	58	56	60	59	45	44	51	51
11	89	81	79	71	60	58	59	56	45	44	52	50
12	84	76	82	79	60	59	57	55	46	44	52	51
13	75	72	83	78	59	56	54	53	46	45	52	51
14	80	71	81	80	56	52	55	54	47	45	52	51
15	83	79	80	75	53	52	55	55	46	45	51	50
16	81	76	75	67	52	51	56	55	47	46	50	49
17	89	77	67	61	52	51	56	55	47	46	51	50
18	89	81	61	57	52	51	52	51	47	46	51	50
19	82	71	61	60	52	51	48	44	48	46	51	50
20	71	58	60	58	52	50	45	44	49	47	51	49
21	71	58	58	56	52	51	46	45	49	48	52	50
22	76	61	56	54	53	52	46	45	49	48	52	50
23	74	55	53	51	54	53	47	46	48	47	52	50
24	81	65	51	51	55	54	47	46	47	46	51	49
25	87	78	57	51	57	55	47	45	47	46	52	50
26	81	71	69	58	56	55	46	44	47	46	54	52
27	71	62	71	69	57	55	45	43	47	46	56	54
28	77	56	69	65	55	52	44	42	47	46	57	55
29	86	65	66	63	53	51	43	42	---	---	58	56
30	90	72	64	61	52	51	44	40	---	---	58	57
31	96	71	---	---	53	51	42	39	---	---	59	57
MONTH	96	55	98	51	69	50	60	39	49	35	59	46

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	60	58	64	60	76	74	128	98	121	111	110	92
2	61	60	65	63	80	75	120	96	116	108	119	87
3	63	61	66	65	83	79	136	118	110	103	147	90
4	65	63	65	63	86	82	132	119	102	90	155	100
5	65	63	65	63	87	85	131	104	104	92	167	95
6	65	63	66	65	88	81	131	98	113	101	149	100
7	65	63	67	65	87	80	151	104	121	111	142	103
8	68	65	67	65	82	77	143	108	131	119	128	110
9	69	67	64	63	88	81	149	105	139	117	141	109
10	72	69	63	60	88	79	130	104	115	91	138	108
11	75	72	60	56	89	83	146	105	90	84	169	101
12	77	75	56	54	92	83	145	103	105	83	180	123
13	77	74	56	54	91	84	134	100	114	102	183	104
14	75	73	57	56	90	76	128	104	107	85	162	101
15	76	75	58	56	88	68	105	92	102	67	111	89
16	75	74	58	56	91	71	94	81	66	53	117	93
17	74	72	57	55	101	69	115	78	55	51	125	98
18	73	72	55	53	104	72	118	73	60	55	137	101
19	73	69	54	51	107	82	73	64	67	59	146	110
20	70	70	54	52	101	85	64	61	75	66	145	101
21	70	69	57	54	98	82	75	63	85	76	130	107
22	71	70	60	57	99	78	87	76	85	76	114	100
23	72	69	60	58	133	82	98	88	76	67	103	100
24	69	67	58	56	126	91	103	98	71	63	124	100
25	67	64	56	55	146	91	106	100	77	63	139	116
26	65	61	58	55	166	100	110	102	88	70	143	125
27	61	57	62	58	164	101	102	91	94	80	140	127
28	57	55	67	62	169	100	92	89	104	87	126	103
29	57	55	70	67	173	107	112	91	108	89	103	92
30	59	56	74	70	151	101	124	112	106	96	99	90
31	---	---	74	73	---	---	122	115	103	86	---	---
MONTH	77	55	74	51	173	68	151	61	139	51	183	87

02202500 OGEECHEE RIVER NEAR EDEN, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25.5	24.0	18.5	17.5	16.0	15.5	8.0	7.5	7.0	6.0	9.5	9.0
2	25.5	24.5	18.5	18.0	15.5	15.0	8.0	8.0	7.0	6.5	9.5	9.0
3	25.0	23.5	19.0	18.5	14.5	14.0	8.0	7.5	6.5	6.0	9.0	9.0
4	23.0	22.0	20.0	19.0	15.0	14.0	7.5	6.5	6.0	5.5	9.0	8.0
5	22.0	20.5	20.0	19.5	15.0	14.5	7.5	6.5	6.0	5.0	8.5	7.5
6	21.5	20.0	20.5	19.5	15.0	14.0	8.0	7.5	5.5	5.0	9.0	7.5
7	21.5	20.0	20.5	19.5	14.0	12.0	9.0	8.0	5.0	4.0	9.5	8.5
8	21.5	20.0	20.5	19.5	11.5	11.0	10.5	9.0	4.0	3.5	10.0	9.5
9	21.5	21.0	20.5	19.5	11.0	10.5	10.5	9.0	4.0	4.0	10.0	10.0
10	21.0	19.5	20.0	18.5	10.0	9.0	9.0	7.5	5.0	4.0	9.5	9.5
11	21.5	19.5	18.5	16.5	9.0	8.0	7.0	6.0	6.0	4.0	10.5	9.0
12	21.0	19.5	16.0	15.0	8.0	7.5	6.0	5.5	6.5	5.0	11.5	10.0
13	19.5	17.0	14.5	13.0	8.5	7.5	6.0	5.5	7.5	6.0	13.0	11.5
14	17.5	16.5	13.0	12.0	10.0	8.5	6.0	5.5	8.0	7.0	14.0	13.0
15	17.5	16.0	12.5	11.5	10.5	10.0	5.5	5.0	8.0	7.0	15.5	14.0
16	17.5	16.0	12.5	12.0	11.5	10.5	5.0	4.5	8.0	7.5	16.0	15.5
17	16.5	15.0	13.5	12.5	12.5	11.5	6.0	5.0	8.5	8.0	15.5	14.5
18	16.0	14.5	13.5	13.0	13.5	12.5	6.5	6.0	8.5	8.5	14.5	13.5
19	16.5	15.0	13.0	12.5	13.0	12.5	7.0	6.5	9.0	8.5	14.0	12.5
20	16.0	15.0	14.0	13.0	13.0	12.0	7.5	7.5	8.5	8.0	15.0	13.5
21	16.0	15.0	14.5	13.5	13.0	11.5	7.5	7.0	8.0	7.5	15.5	14.5
22	16.5	15.0	15.0	14.0	11.5	10.0	7.5	7.0	7.5	6.5	17.0	15.5
23	17.0	15.5	16.0	15.0	10.0	9.5	7.5	7.0	6.5	6.0	17.5	16.5
24	17.5	16.0	16.5	16.0	9.5	9.0	8.0	7.0	7.0	6.0	18.5	17.0
25	18.0	17.0	17.0	16.5	10.0	9.5	10.0	8.0	7.5	6.5	18.5	18.0
26	19.0	18.0	16.5	14.5	9.5	8.5	9.5	8.5	8.5	7.5	19.5	18.5
27	19.0	18.0	14.5	13.5	8.5	7.5	8.5	7.5	9.0	8.0	19.0	17.5
28	19.0	18.0	14.0	13.0	7.5	7.0	7.5	7.0	9.0	9.0	17.5	16.5
29	19.0	18.0	15.0	13.5	7.0	6.0	7.0	6.0	---	---	17.5	16.0
30	19.0	18.5	15.5	14.5	6.5	6.5	6.5	5.5	---	---	18.0	16.5
31	18.5	17.5	---	---	7.5	7.0	6.5	5.5	---	---	18.0	16.5
MONTH	25.5	14.5	20.5	11.5	16.0	6.0	10.5	4.5	9.0	3.5	19.5	7.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	19.0	17.5	18.0	17.5	25.5	24.0	30.5	29.0	29.5	27.5	30.0	28.0
2	19.5	18.0	18.5	17.5	26.0	24.5	30.0	29.0	29.5	26.0	29.5	28.0
3	20.0	19.0	18.0	17.5	25.5	25.0	30.0	29.0	29.5	28.0	29.0	27.0
4	20.5	19.5	18.5	17.5	26.0	25.0	30.0	28.0	30.0	28.0	29.0	27.0
5	21.0	20.0	19.5	18.0	26.5	25.0	31.0	29.0	28.5	27.0	28.0	27.0
6	21.5	20.5	20.0	18.5	26.5	25.5	29.5	28.0	27.0	26.5	27.0	26.0
7	22.0	20.5	20.5	19.5	27.0	25.5	29.0	27.5	28.0	26.0	27.5	25.5
8	22.0	21.0	21.0	20.0	27.0	26.0	29.5	28.0	28.0	26.5	27.5	25.5
9	22.0	21.0	20.5	20.5	27.5	26.0	30.0	28.0	28.5	26.5	27.5	26.0
10	22.5	21.5	21.5	20.0	27.5	26.5	30.0	28.5	29.0	27.5	27.0	26.0
11	22.0	21.5	20.5	20.0	27.0	26.5	30.5	28.5	29.0	27.5	27.0	25.5
12	22.0	21.5	20.5	19.5	27.5	26.0	29.5	28.0	28.5	27.0	27.0	25.0
13	21.5	20.5	20.5	20.0	27.5	26.0	28.5	27.5	29.0	26.5	27.5	25.5
14	21.0	20.0	20.5	19.5	27.5	26.0	28.5	27.0	28.5	26.5	26.5	25.5
15	21.0	19.5	20.0	19.5	27.5	26.0	29.5	27.0	28.5	27.0	27.0	25.0
16	20.5	20.0	19.5	19.0	26.5	25.5	28.0	27.0	28.0	26.5	27.0	25.5
17	20.0	19.5	19.5	19.0	25.5	24.5	28.0	26.5	28.5	27.0	27.5	25.5
18	20.0	19.5	19.0	18.5	26.0	24.5	27.5	26.0	29.5	28.0	27.5	26.0
19	20.0	19.0	19.5	18.5	26.0	24.5	26.5	25.5	29.5	28.0	28.0	25.5
20	19.5	19.0	20.0	19.0	26.0	24.5	26.5	25.5	30.0	28.0	28.0	26.0
21	19.0	18.0	21.0	20.0	26.5	25.0	27.5	26.0	30.0	28.5	28.0	26.0
22	18.0	17.0	22.0	21.0	27.0	25.5	28.0	26.5	29.5	28.5	27.5	26.0
23	17.5	16.5	22.5	21.5	28.0	26.0	28.5	27.0	29.0	27.5	28.0	26.0
24	18.0	17.0	23.0	22.0	28.0	26.5	29.5	27.5	29.0	27.5	27.5	26.0
25	18.0	17.5	23.0	22.0	28.5	26.5	30.0	28.0	29.0	27.0	27.0	25.5
26	18.0	16.5	23.5	22.5	29.5	27.0	29.5	28.5	29.0	27.5	26.0	25.0
27	16.5	16.0	23.5	22.5	30.0	28.0	29.0	27.5	29.0	27.5	25.0	23.5
28	16.5	15.5	23.5	23.0	31.0	28.5	29.0	27.5	29.5	27.5	25.0	23.0
29	17.0	15.5	24.0	23.0	31.0	29.5	29.5	27.5	29.0	27.5	24.0	23.0
30	17.5	16.5	24.5	23.5	30.5	29.0	30.0	28.0	30.0	27.5	23.0	22.0
31	---	---	25.0	24.0	---	---	29.5	28.0	30.0	28.0	---	---
MONTH	22.5	15.5	25.0	17.5	31.0	24.0	31.0	25.5	30.0	26.0	30.0	22.0

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.

LOCATION.--Lat 32°11'05", long 81°53'20", Evans County, Hydrologic Unit 03060208, on right bank 400 ft (122 m) upstream from bridge on State Highway 73, 2 mi (3.2 km) northeast of Claxton, and 10 mi (16.1 km) upstream from Lotts Creek.

DRAINAGE AREA.--555 mi^2 (1,440 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1937 to current year.

REVISED RECORDS.--WSP 1112: 1939-41, 1944.

GAGE.--Water-stage recorder. Datum of gage is 80.5 ft (24.54 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Oct. 20, 1949, nonrecording gage at same site and datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--41 years, 474 ft^3/s (13.4 m^3/s), 11.60 in/yr (294.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s (357 m^3/s) May 26, 1966, gage height, 16.58 ft (5.054 m); minimum observed discharge, 0.86 ft^3/s (0.024 m^3/s) Sept. 8-14, Oct. 25, 26, Nov. 2, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,670 ft^3/s (161 m^3/s) Jan. 27, gage height, 13.42 ft (4.090 m); minimum, 3.8 ft^3/s (0.108 m^3/s) Sept. 28, 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	53	147	855	2760	863	614	191	60	9.2	40	14
2	135	44	298	938	2180	895	602	201	52	8.3	70	31
3	160	40	398	929	2040	931	559	219	41	8.3	55	13
4	135	36	415	837	2240	1000	493	464	47	8.3	27	9.8
5	112	67	349	733	2340	1010	421	724	67	7.4	23	8.8
6	94	234	524	669	2210	993	351	735	83	7.0	34	7.9
7	78	371	786	604	2120	956	290	717	107	6.5	34	7.4
8	69	415	950	564	1980	950	244	676	76	6.1	55	6.5
9	62	348	864	636	1790	1060	203	706	120	5.6	68	6.1
10	52	235	649	734	1600	1220	172	903	178	7.4	59	13
11	37	165	494	823	1430	1340	154	1030	146	8.3	108	13
12	29	132	401	882	1300	1440	146	1060	128	7.9	218	10
13	29	112	335	958	1220	1440	190	915	132	6.1	240	8.3
14	44	96	349	1130	1150	1390	519	695	99	5.2	200	7.4
15	42	84	706	1290	1080	1400	695	530	80	9.2	214	6.1
16	36	77	987	1470	1030	1450	801	446	103	87	252	5.6
17	30	71	1130	1520	1040	1450	835	389	103	83	317	5.6
18	24	68	1030	1470	1070	1370	729	415	72	78	423	5.2
19	20	65	850	1510	1140	1240	701	454	51	105	286	4.4
20	16	61	697	1790	1190	1090	803	423	35	144	177	4.1
21	14	58	638	2380	1190	949	810	335	27	146	121	4.4
22	13	54	701	2740	1160	857	705	253	21	123	87	5.6
23	11	52	754	2580	1110	792	525	197	17	90	62	5.6
24	11	52	745	2470	1040	731	373	156	14	62	45	4.7
25	12	56	695	2440	977	673	311	128	14	44	34	6.1
26	21	61	722	2990	926	692	397	118	17	37	27	5.2
27	60	65	728	5060	870	825	426	106	15	48	26	4.4
28	75	65	688	5290	822	859	378	93	13	52	22	3.8
29	84	60	616	5440	---	788	309	81	12	44	19	3.8
30	74	64	586	5100	---	698	246	67	10	32	17	4.4
31	64	---	725	3830	---	629	---	58	---	26	16	---
TOTAL	1702	3361	19957	60662	41005	31981	14002	13485	1940	1311.8	3376	235.2
MEAN	54.9	112	644	1957	1464	1032	467	435	64.7	42.3	109	7.84
MAX	160	415	1130	5440	2760	1450	835	1060	178	146	423	31
MIN	11	36	147	564	822	629	146	58	10	5.2	16	3.8
CFSM	.10	.20	1.16	3.53	2.64	1.86	.84	.78	.12	.08	.20	.01
IN.	.11	.23	1.34	4.07	2.75	2.14	.94	.90	.13	.09	.23	.02

CAL YR 1977 TOTAL 173754.4 MEAN 476 MAX 4120 MIN 4.4 CFSM .86 IN 11.65
WTR YR 1978 TOTAL 193018.0 MEAN 529 MAX 5440 MIN 3.8 CFSM .95 IN 12.94

02203000 CANOOCHEE RIVER NEAR CLAXTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
NOV						
01...	1130	54	5.5	20.0	16.5	6.9
FEB						
07...	1115	2120	5.1	-2.0	3.0	11.0
MAY						
02...	1000	197	5.8	22.0	16.0	7.6
JUL						
11...	1000	9.4	6.7	28.0	26.0	4.3
AUG						
08...	0915	56	6.2	26.5	25.0	5.1
SEP						
06...	1000	8.5	6.2	25.0	25.0	4.5

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
FEB											
07...	38	--	7	--	<30	--	--	.24	<.02	<.02	5.0
MAY											
02...	41	100	7	.9	90	--	1	.07	.04	.10	17
JUL											
11...	71	60	8	2.4	430	16	61	.07	.56	.52	11
AUG											
08...	44	100	8	1.0	90	5	<1	.04	.07	.12	12
SEP											
06...	65	50	11	2.0	90	12	3	.04	.20	.33	19

02203519 CANOOCHEE RIVER NEAR RICHMOND HILL, GA.

LOCATION.--Lat 31°58'59", long 81°23'07", Bryan County, Hydrologic Unit 03060203, at bridge on State Highway 67, 5.3 mi (8.5 km) west of Richmond Hill, and 8.5 mi (13.7 km) upstream from Ogeechee River.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1978 to current year.

WATER QUALITY DATA. WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
JUL 11...	0800	6.3	26.0	25.0	4.5
AUG 08...	0700	6.3	23.0	25.0	5.8
SEP 06...	0700	5.1	23.0	25.0	5.9

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
JUL 11...	55	150	10	.9	70	6	2	.22	.02	.17	16
AUG 08...	51	135	8	.6	<30	7	<1	.24	.02	.18	14
SEP 06...	51	225	6	2.0	90	2	<1	.12	.02	.14	23

02203578 NORTH NEWPORT RIVER AT HALFMOON LANDING, GA.

LOCATION.--Lat 31°40'39", long 81°18'05", Liberty County, Hydrologic Unit 03060204, at Halfmoon Landing, at mile 9.9 (15.9 km).
DRAINAGE AREA.--157 mi^2 (407 km^2).
PERIOD OF RECORD.--September 1966 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1970 to September 1976.
pH: July 1970 to September 1976.
WATER TEMPERATURES: July 1970 to September 1976.
DISSOLVED OXYGEN: July 1970 to September 1976.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 06...	1600	7.5	25.0	24.0	6.4
NOV 22...	0912	7.9	19.5	16.0	6.8
DEC 14...	1243	7.5	17.0	11.0	10.5
JAN 17...	0950	7.4	13.0	6.5	10.5
MAR 21...	1320	7.5	20.5	16.5	6.6
APR 18...	1200	7.4	25.5	22.0	6.5
MAY 30...	0936	7.2	25.0	27.0	3.8

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	CHLORIDE, DISSOLVED (MG/L AS CL)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 06...	5960	25	5	.9	<30	15400	7	<.02	<.02	.13	7.0
NOV 22...	43200	25	11	.8	40	16400	16	<.02	<.02	.13	5.0
DEC 14...	34800	20	18	.8	<30	15800	30	<.02	<.02	.10	8.0
JAN 17...	25500	--	12	1.0	40	9800	13	.04	.20	.10	13
MAR 21...	16700	80	11	1.6	40	5600	30	.03	.02	.09	11
APR 18...	24600	45	8	1.5	30	8800	60	.04	.09	.06	11
MAY 30...	25700	90	17	1.1	35	11500	34	.07	<.02	.11	14

02203800 SOUTH RIVER AT ATLANTA, GA.

LOCATION.--Lat 33°40'46", long 84°18'30", DeKalb County, Hydrologic Unit 03070103, at bridge on Bouldercrest Road at Atlanta, 0.4 mi (0.6 km) southeast of Interstate Highway 285, and 1.1 mi (1.8 km) upstream from Sugar Creek.

DRAINAGE AREA.--41.5 mi^2 (107 km^2).

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Natural flow of stream includes some flow diverted from the Chattahoochee River for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 17...	1400	121	7.2	16.0	16.0	5.9
NOV 14...	1200	71	6.7	12.0	12.0	6.3
DEC 21...	1210	70	7.0	6.5	10.0	7.2
JAN 16...	1300	83	6.9	4.0	7.0	6.5
FEB 13...	1200	140	6.7	9.0	11.0	8.2
MAR 20...	1220	84	7.2	20.0	15.0	7.6
APR 17...	1430	76	6.8	25.0	19.0	5.8
MAY 23...	1315	71	7.0	27.0	22.5	3.7
JUN 19...	1300	72	6.9	30.5	24.5	5.6
JUL 19...	1230	87	6.7	34.5	26.0	5.2
AUG 20...	1300	92	6.7	31.0	25.0	5.4
SEP 19...	0850	48	6.8	24.5	23.0	2.2

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 17...	316	17	6.0	430	--	12	212	3.6	4.3	3.0	16
NOV 14...	252	27	12	93000	--	33	196	3.6	3.4	2.4	18
DEC 21...	307	27	17	70	--	18	228	2.9	4.5	3.1	23
JAN 16...	268	29	16	23000	--	18	190	2.0	5.3	1.8	15
FEB 13...	288	40	31	1500	--	48	230	1.4	7.5	2.7	21
MAR 20...	290	20	12	<30	--	16	216	1.9	7.2	2.2	14
APR 17...	302	14	13	230	--	22	200	.40	7.7	2.5	15
MAY 23...	327	22	25	43000	--	15	252	2.7	6.0	3.6	19
JUN 19...	299	19	15	9300	--	19	224	6.1	3.7	3.4	14
JUL 19...	258	22	>6.1	4300	46	--	--	3.5	2.7	2.7	18
AUG 20...	236	25	9.3	930	30	19	172	3.7	1.2	2.2	19
SEP 19...	365	21	--	4300	68	18	284	2.2	1.8	5.0	23

02203965 SOUTH RIVER NEAR LITHONIA, GA.

LOCATION.--Lat 33°39'14", long 84°11'12", DeKalb County, Hydrologic Unit 03070103, at bridge on State Highway 155, 2.0 mi (3.2 km) south of State Highway 212, 2.4 mi (3.8 km) downstream from Snapfinger Creek, and 6.2 mi (10 km) southwest of Lithonia.

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Natural flow of stream includes some flow diverted from the Chattahoochee River for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT					
17...	1330	7.3	14.0	14.0	8.3
NOV					
14...	1100	7.1	8.5	9.5	9.5
DEC					
21...	1300	6.9	8.0	9.5	7.4
JAN					
16...	1230	6.9	2.0	5.0	11.0
FEB					
13...	1300	7.2	10.0	9.5	9.2
MAR					
20...	1325	7.3	24.0	14.0	8.2
APR					
17...	1345	7.0	24.0	18.0	6.2
MAY					
23...	1235	7.0	27.0	21.5	5.5
JUN					
19...	1215	7.1	31.0	23.0	5.7
JUL					
19...	1120	7.0	32.0	25.0	6.7
AUG					
26...	1215	6.9	29.0	25.0	5.8
SEP					
19...	0755	6.9	21.5	23.5	3.8

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
17...	212	14	4.4	<30	--	6	150	2.1	3.0	2.0	10
NOV											
14...	191	16	5.2	40	--	13	124	3.0	2.5	1.9	10
DEC											
21...	222	19	7.8	<30	--	11	168	1.5	3.3	2.0	13
JAN											
16...	199	25	8.0	<50	--	7	140	1.3	3.8	1.5	8.0
FEB											
13...	187	16	8.8	<30	--	13	138	1.2	4.2	1.6	7.0
MAR											
20...	190	16	7.6	<30	--	10	144	1.2	3.7	1.6	9.0
APR											
17...	213	13	6.4	40	--	13	132	.86	4.9	1.8	6.0
MAY											
23...	226	14	11	9300	--	14	166	1.1	4.7	2.5	11
JUN											
19...	226	13	7.2	140	--	9	154	2.3	2.9	2.3	7.0
JUL											
19...	245	17	7.2	2300	53	--	--	3.0	2.6	2.9	11
AUG											
26...	218	15	6.4	430	38	4	136	2.4	2.1	1.5	11
SEP											
19...	253	12	--	90	45	8	168	2.2	2.7	.40	7.0

02204285 PATES CREEK NEAR FLIPPEN, GA.

LOCATION.--Lat 33°29'34", long 84°14'44", Henry County, Hydrologic Unit 03070103, on left upstream headwall of culvert on county road, 3.6 mi (5.8 km) west of Flippen, and 3.8 mi (6.1 km) upstream from Little Cotton Indian Creek.

DRAINAGE AREA.--11.9 mi^2 (30.8 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 722 ft (220 m), from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 9.40 ft (2.865 m) Nov. 5, 1977 (discharge not determined); minimum discharge, 1.8 ft^3/s (0.051 m^3/s) Sept. 19-24, 28-30, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft^3/s (11.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 5	0600	unknown		9.40	2.865
Jan. 25	2045	unknown		7.75	2.362
May 8	2145	409	11.6	4.79	1.460

Minimum discharge, 1.8 ft^3/s (0.051 m^3/s) Sept. 19-24, 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	10	12	23	18	13	10	132	7.3	4.2	4.2	2.4
2	6.3	9.4	9.3	18	17	12	9.6	62	7.0	4.1	3.8	2.5
3	5.4	10	8.3	14	16	13	9.4	44	7.2	4.2	3.2	2.8
4	5.1	22	8.1	13	15	12	9.0	62	7.0	4.2	5.2	2.7
5	4.9	424	10	12	14	11	8.9	39	6.5	3.9	5.2	2.6
6	4.9	117	9.0	17	13	10	8.8	30	6.4	3.9	4.8	2.4
7	4.8	62	7.5	16	13	10	8.6	34	6.8	4.0	5.0	2.2
8	5.8	45	7.5	16	12	14	8.2	84	12	3.8	4.4	2.1
9	17	29	8.7	24	12	44	8.1	132	12	3.9	6.9	2.0
10	8.2	19	7.7	18	12	55	8.0	58	8.4	4.7	7.6	2.0
11	6.2	13	7.2	15	12	34	10	33	7.4	4.5	5.9	2.0
12	4.8	10	7.2	14	12	26	12	24	7.0	4.3	6.2	2.0
13	4.4	8.2	7.4	24	12	21	20	20	7.0	4.5	5.0	2.1
14	3.9	7.5	11	21	12	24	13	15	6.0	4.6	4.2	2.5
15	3.9	8.8	11	17	12	20	11	13	6.0	6.2	4.0	2.8
16	4.4	6.6	9.5	15	12	17	9.8	14	5.9	6.5	4.2	2.7
17	4.4	8.2	9.9	32	11	14	8.8	13	5.6	5.2	3.7	2.4
18	4.4	7.5	17	28	12	13	25	12	5.5	4.6	3.5	2.2
19	4.4	6.2	18	54	11	13	20	12	5.5	4.2	3.5	2.0
20	4.4	6.6	16	96	11	13	13	11	5.5	4.0	3.8	2.0
21	4.8	6.6	14	46	10	13	11	9.5	5.5	3.7	3.4	1.9
22	4.8	7.0	13	32	10	13	9.9	8.9	5.1	3.7	3.4	1.9
23	4.8	8.8	12	25	10	12	9.6	9.6	5.0	3.4	2.9	1.9
24	5.2	7.5	11	25	10	13	9.3	9.3	4.8	4.4	2.7	2.0
25	69	7.5	19	279	10	13	18	8.5	4.9	6.6	2.6	2.2
26	76	6.6	13	203	9.9	13	15	8.1	4.7	6.8	2.6	2.2
27	37	6.2	12	80	10	12	12	7.7	4.5	6.3	3.1	2.1
28	25	8.8	11	40	14	11	10	7.6	4.8	6.2	3.0	2.0
29	17	8.2	10	25	---	11	9.3	11	4.6	5.1	2.7	1.9
30	13	9.8	31	22	---	11	8.8	10	4.2	4.6	2.6	1.9
31	12	---	33	19	---	10	---	8.0	---	4.3	2.5	---
TOTAL	383.0	907.0	381.3	1283	342.9	521	344.1	942.2	190.1	144.6	125.8	66.4
MEAN	12.4	30.2	12.3	41.4	12.2	16.8	11.5	30.4	6.34	4.66	4.06	2.21
MAX	76	424	33	279	18	55	25	132	12	6.8	7.6	2.8
MIN	3.9	6.2	7.2	12	9.9	10	8.0	7.6	4.2	3.4	2.5	1.9
CFSM	1.04	2.54	1.03	3.48	1.03	1.41	.97	2.56	.53	.39	.34	.19
IN.	1.20	2.84	1.19	4.01	1.07	1.63	1.08	2.95	.59	.45	.39	.21

WTR YR 1978 TOTAL 5631.4 MEAN 15.4 MAX 424 MIN 1.9 CFSM 1.29 IN 17.60

02204285 PATES CREEK NEAR FLIPPEN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
FEB							
16...	1520	11	8.0	10	20	.59	--
MAR							
30...	0850	11	11.5	13	23	.68	100
MAY							
09...	0950	215	18.5	400	662	384	82
JUN							
22...	0950	5.2	23.0	9.0	41	.58	39
AUG							
03...	1315	3.7	23.5	12	20	.20	100

02204500 SOUTH RIVER NEAR MCDONOUGH, GA.

LOCATION.--Lat 33°29'48", long 84°00'53", Henry-Newton County line, Hydrologic Unit 03070103, on left bank 20 ft (6 m) downstream from Butler Bridge, 0.2 mi (0.3 km) upstream from Beech Creek, 2 mi (3.2 km) downstream from Big Walnut Creek, 4.5 mi (7.2 km) downstream from Cotton River, and 9 mi (14.5 km) northeast of McDonough.

DRAINAGE AREA.--456 mi^2 (1,180 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to September 1960. Water years 1961-65 (annual maximum only). October 1975 to current year.

REVISED RECORDS.--WSP 1624: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 564.99 ft (172.21 m) National Geodetic Vertical Datum of 1929 (Corps of Engineers bench mark).

REMARKS.--Records good. Figures of daily discharge include some flow diverted from Chattahoochee River for municipal supply.

AVERAGE DISCHARGE.--24 years, 572 ft^3/s (16.2 m^3/s), 17.03 in/yr (432.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,500 ft^3/s (977 m^3/s) Jan. 7, 1946, gage height, 24.7 ft (7.53 m), from rating curve extended above 25,000 ft^3/s (708 m^3/s); minimum daily, 54 ft^3/s (1.53 m^3/s) Oct. 12, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 26	2130	5790	164	14.83	4.520
Nov. 6	0900	7320	207	16.21	4.941
Jan. 26	1600	*12000	340	19.00	5.791
May 9	2230	8250	234	16.84	5.133

Minimum daily discharge, 146 ft^3/s (4.13 m^3/s) Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	311	392	570	878	867	662	463	1630	379	183	523	200
2	272	372	525	648	830	529	457	3100	345	179	267	196
3	297	370	425	549	796	528	446	1020	328	198	204	198
4	257	505	400	483	745	612	425	1510	329	188	509	220
5	233	4010	392	450	717	479	400	1700	303	174	840	190
6	224	6690	445	509	687	446	388	793	297	163	326	182
7	219	2740	395	1040	654	438	375	682	360	167	587	180
8	220	1300	350	695	630	527	357	1350	893	171	601	178
9	1050	920	350	1650	627	723	349	5850	776	171	354	180
10	2230	750	390	1050	618	3480	341	3840	497	230	1290	174
11	628	633	355	698	597	1840	353	1150	401	233	475	168
12	405	558	330	602	576	1060	766	843	362	185	1640	164
13	322	510	325	730	582	891	865	799	402	171	748	157
14	272	474	350	1030	618	842	927	820	380	171	418	161
15	248	453	555	751	558	1080	523	594	302	196	372	211
16	248	438	425	626	540	773	436	544	284	427	762	198
17	244	450	375	844	534	671	401	503	275	260	388	182
18	224	459	480	1690	539	623	611	469	264	202	312	170
19	226	415	585	1100	576	593	1810	523	257	177	284	162
20	220	398	438	3950	517	572	738	436	252	174	270	155
21	214	388	405	2460	499	563	521	400	259	152	250	151
22	212	385	380	1250	481	589	451	370	285	147	510	149
23	208	430	358	954	467	575	420	349	245	221	388	146
24	204	508	350	836	466	538	404	346	225	231	270	158
25	370	406	525	3750	454	527	487	377	225	466	230	280
26	4600	391	660	11100	445	534	958	336	211	353	230	224
27	2520	382	438	5910	433	531	557	364	215	256	250	178
28	837	389	388	1810	454	506	445	327	201	487	450	166
29	600	782	370	1300	---	496	406	541	196	284	254	160
30	489	495	450	1070	---	482	387	736	195	216	224	168
31	430	---	1490	947	---	471	---	457	---	206	210	---
TOTAL	19034	27393	14274	51360	16507	23181	16467	32759	9943	7039	14436	5406
MEAN	614	913	460	1657	590	748	549	1057	331	227	466	180
MAX	4600	6690	1490	11100	867	3480	1810	5850	893	487	1640	280
MIN	204	370	325	450	433	438	341	327	195	147	204	146
CFSM	1.35	2.00	1.01	3.63	1.29	1.64	1.20	2.32	.73	.50	1.02	.40
IN.	1.55	2.23	1.16	4.19	1.35	1.89	1.34	2.67	.81	.57	1.18	.44

CAL YR 1977 TOTAL 223631 MEAN 613 MAX 6690 MIN 145 CFSM 1.34 IN 18.24
WTR YR 1978 TOTAL 237799 MEAN 652 MAX 11100 MIN 146 CFSM 1.43 IN 19.40

02204500 SOUTH RIVER NEAR MCDONOUGH, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1957 to May 1958, January 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN							
05...	1000	453	4.0	13	15	19	67
FEB							
17...	1030	531	7.5	4.0	19	27	--
MAR							
27...	1600	531	--	5.0	14	21	100
MAY							
11...	1100	1160	17.5	55	76	238	85
JUN							
22...	1310	286	24.0	15	37	29	86
SEP							
12...	0900	160	23.0	6.0	13	5.6	100

02204520 SOUTH RIVER AT SNAPPING SHOALS, GA.

LOCATION.--Lat 33°29'04", long 83°57'29", Newton-Henry County line, Hydrologic Unit 03070103, at bridge on State Highway 81, 0.2 mi (0.3 km) south of State Highway 212, and 0.5 mi (0.8 km) upstream from Snapping Shoals Creek.

DRAINAGE AREA.--465 mi^2 (1,200 km^2).

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Natural flow of stream includes some flow diverted from the Chattahoochee River for municipal supply. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
11...	1000	425	6.7	17.5	16.0	7.6
NOV						
15...	1115	330	7.0	14.0	10.0	9.5
DEC						
13...	1100	366	6.9	10.0	6.0	9.8
JAN						
10...	0930	1020	6.9	-11.1	4.0	--
FEB						
07...	0930	404	6.7	-10.0	3.0	11.5
MAR						
14...	1000	640	7.0	18.0	14.0	7.4
APR						
10...	0945	348	6.9	23.0	19.5	5.8
MAY						
16...	0945	524	6.8	17.0	16.5	6.8
JUN						
13...	1010	446	6.9	28.5	24.0	5.0
JUL						
10...	1015	180	7.0	27.0	25.0	5.3
AUG						
14...	0950	400	6.7	31.0	24.0	5.6
SEP						
12...	1120	150	6.9	27.0	23.5	4.8

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)
OCT						
11...	74	58	22	1.6	23000	--
NOV						
15...	116	20	10	4.0	1500	--
DEC						
13...	132	15	13	3.0	90	--
JAN						
10...	68	120	32	7.6	23000	--
FEB						
07...	47	21	13	--	430	--
MAR						
14...	85	27	10	4.2	230	--
APR						
10...	121	10	18	2.6	230	--
MAY						
16...	88	28	8	2.4	230	--
JUN						
13...	120	19	11	2.0	430	--
JUL						
10...	153	27	18	2.1	4300	28
AUG						
14...	99	46	10	2.0	--	19
SEP						
12...	185	5	14	3.2	430	36

02204520 SOUTH RIVER AT SNAPPING SHOALS, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
11...	44	106	.84	.14	.64	.34	6.0
NOV							
15...	28	144	1.4	.41	.72	.57	4.0
DEC							
13...	1	98	1.7	.85	1.0	.83	4.0
JAN							
10...	110	188	.67	.02	.82	.43	8.0
FEB							
07...	8	86	1.0	1.4	1.4	.50	1.0
MAR							
14...	42	104	1.1	.39	.66	.40	<1.0
APR							
10...	1	92	1.6	.70	.80	.04	3.5
MAY							
16...	17	82	1.4	.06	.70	.48	4.0
JUN							
13...	11	102	1.7	.08	.20	.76	4.0
JUL							
10...	22	136	1.9	.08	.61	1.4	5.0
AUG							
14...	31	112	.11	.04	.38	--	4.0
SEP							
12...	<1	116	1.9	.13	.64	1.7	3.0

02205000 WILDCAT CREEK NEAR LAWRENCEVILLE, GA.

LOCATION.--Lat 34°00'08", long 84°00'18", Gwinnett County, Hydrologic Unit 03070103, on left bank 75 ft (23 m) upstream from highway bridge, 0.7 mi (1.1 km) upstream from mouth, 1.1 mi (1.8 km) east of State Highway 20, and 3.2 mi (5.1 km) north of Lawrenceville.

DRAINAGE AREA.--1.59 mi² (4.12 km²).

PERIOD OF RECORD.--October 1953 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 970 ft (926 m), by barometer.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--25 years, 1.70 ft³/s (0.048 m³/s), 14.52 in/yr (368.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 806 ft³/s (22.8 m³/s) May 6, 1956, gage height, 8.20 ft (2.499 m), from rating curve extended above 45 ft³/s (1.27 m³/s), on basis of slope-area measurement at gage height, 4.95 ft (1.509 m) and slope-area estimate at gage height, 8.20 ft (2.499 m); no flow for part of each day Sept. 1-6, Oct. 7, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 60 ft³/s (1.70 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Oct. 25	1800	86	2.44	4.35	1.326	Aug. 4	0915	170	4.81	5.40	1.646
Nov. 5	1500	129	3.65	4.90	1.494	Aug. 11	1315	63	1.78	3.96	1.207
Jan. 25	1900	182	5.15	5.53	1.686						

Minimum daily discharge, 0.08 ft³/s (0.002 m³/s) July 11-13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.45	.97	1.8	2.4	1.9	1.4	1.1	9.5	.47	.13	.19	.56
2	1.8	1.0	1.3	2.2	2.0	1.6	1.0	6.7	.45	.12	.15	.56
3	.60	1.3	1.2	2.0	1.8	2.8	.94	5.0	.47	.11	.11	.56
4	.47	4.2	1.2	1.9	1.7	1.9	.92	7.2	.43	.11	38	.48
5	.44	52	1.3	1.8	1.7	1.5	.90	5.8	.38	.10	5.3	.44
6	.43	18	1.2	2.5	1.7	1.5	.89	3.7	.38	.11	3.1	.44
7	.41	11	1.0	1.6	1.6	1.5	.85	2.4	.51	.12	4.8	.40
8	2.9	7.9	1.2	7.2	1.6	1.9	.80	5.1	.92	.09	1.5	.40
9	16	6.1	1.8	8.3	1.6	5.7	.68	3.9	.72	.09	.97	.37
10	1.1	3.8	1.8	4.6	1.3	9.5	.66	2.2	.54	.09	.75	.37
11	.80	2.5	1.8	3.1	1.3	6.0	1.8	1.8	.50	.08	6.3	.33
12	.57	1.9	1.7	2.9	1.3	4.3	1.4	1.6	.48	.08	2.5	.33
13	.52	1.6	1.8	2.8	1.8	4.1	2.4	1.6	.48	.08	1.3	.33
14	.48	1.5	2.4	2.0	1.5	4.8	1.3	1.3	.40	.12	.80	.33
15	.47	1.4	1.9	1.6	1.3	4.6	1.0	1.2	.40	1.3	4.0	.38
16	.48	1.3	1.7	1.2	1.3	4.3	.86	1.1	.39	.72	2.1	.38
17	.47	1.5	1.8	4.3	1.3	4.0	.79	1.1	.35	.30	1.9	.36
18	.47	1.4	3.5	2.8	1.6	3.5	3.6	1.2	.35	.24	1.4	.35
19	.46	1.2	2.1	4.9	1.4	3.2	18	1.1	.35	.20	1.2	.32
20	.46	1.1	1.9	7.0	1.3	2.7	4.5	.96	.33	.18	1.1	.28
21	.46	1.1	1.8	3.3	1.2	2.3	2.3	.91	.33	.15	.97	.28
22	.46	1.3	1.7	2.3	1.2	2.2	1.8	.82	.31	.15	.97	.25
23	.48	2.3	1.7	2.1	1.3	1.9	1.6	.86	.27	.13	.80	.25
24	.46	2.1	1.8	2.2	1.2	1.8	1.4	.85	.24	.14	.74	.25
25	9.0	1.8	4.6	47	1.2	1.8	2.4	.75	.25	.78	.64	.28
26	3.6	1.6	2.4	10	1.2	2.1	1.7	.71	.24	.32	.64	.28
27	1.7	1.4	2.1	3.8	1.1	1.9	1.3	.69	.21	.31	.64	.27
28	1.3	1.9	2.0	2.7	1.6	1.6	1.2	.64	.18	.29	.64	.25
29	1.1	2.5	1.9	2.2	---	1.3	1.0	.61	.15	.23	.56	.25
30	1.1	2.2	3.5	2.1	---	1.1	1.2	.57	.15	.21	.48	.25
31	1.0	---	2.8	2.0	---	1.1	---	.53	---	.19	.48	---
TOTAL	50.44	139.87	60.7	146.8	41.0	89.9	60.29	72.40	11.63	7.27	85.03	10.58
MEAN	1.63	4.66	1.96	4.74	1.46	2.90	2.01	2.34	.39	.23	2.74	.35
MAX	16	52	4.6	47	2.0	9.5	18	9.5	.92	1.3	38	.56
MIN	.41	.97	1.0	1.2	1.1	1.1	.66	.53	.15	.08	.11	.25
CFSM	1.03	2.93	1.23	2.98	.92	1.82	1.26	1.47	.25	.15	1.72	.22
IN.	1.18	3.27	1.42	3.43	.96	2.10	1.41	1.69	.27	.17	1.99	.25

CAL YR 1977 TOTAL 648.02 MEAN 1.78 MAX 52 MIN .08 CFSM 1.12 IN 15.15
WTR YR 1978 TOTAL 775.91 MEAN 2.13 MAX 52 MIN .08 CFSM 1.34 IN 18.14

02206500 YELLOW RIVER NEAR SNELLVILLE, GA.

LOCATION.--Lat 33°51'11", long 84°04'45", Gwinnett County, Hydrologic Unit 03070103, at county highway bridge, 3.2 mi (5.1 km) west of Snellville, 4 mi (6.4 km) downstream from Sweetwater Creek, 6.5 mi (10.5 km) northeast of town of Stone Mountain, and 7.5 mi (12.1 km) upstream from Stone Mountain Creek.

DRAINAGE AREA.--134 mi^2 (347 km^2).

PERIOD OF RECORD.--November 1969 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for the water years 1963-71 are published in reports of the Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV						
14...	0805	131	7.1	6.0	8.0	11.0
FEB						
13...	1445	157	7.0	12.0	8.0	11.8
MAY						
23...	1000	93	7.4	25.0	20.5	8.4
AUG						
20...	1000	69	7.1	27.0	24.0	7.6

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, FC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV									
14...	71	19	.7	430	--	.38	.06	.07	3.0
FEB									
13...	63	21	.9	930	--	.51	.10	.08	<1.0
MAY									
23...	73	17	.8	23000	--	.60	<.02	.09	2.0
AUG									
20...	93	25	.4	2300	26	.50	<.02	.15	5.0

02207300 YELLOW RIVER AT MILSTEAD, GA.

LOCATION.--Lat 33°41'23", long 83°58'43", Rockdale County, Hydrologic Unit 03070103, at bridge on State Highway 20 at Milstead, 2.2 mi (3.5 km) northeast of Conyers.

DRAINAGE AREA.--210 mi² (540 km²), approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analys the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 17...	1230	155	7.2	11.0	12.5	9.0
NOV 14...	1000	181	7.0	7.5	7.0	11.6
DEC 21...	1355	255	7.1	7.5	7.5	9.3
JAN 16...	1115	367	6.9	-3.0	2.0	--
FEB 13...	1345	339	6.7	10.0	7.0	10.2
MAR 20...	1440	337	7.3	27.0	14.0	10.0
APR 17...	1230	243	6.9	23.0	18.5	8.1
MAY 23...	1130	231	7.4	25.0	21.0	7.3
JUN 19...	1030	132	7.0	28.0	22.5	7.7
JUL 19...	0950	88	6.9	29.5	24.5	7.5
AUG 20...	1100	157	6.9	27.0	25.5	6.6
SEP 19...	0640	77	6.9	18.5	22.5	6.6

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 17...	73	20	.5	4900	490	--	.37	.03	.05	2.0
NOV 14...	63	19	.6	2300	90	--	.32	.04	.05	3.0
DEC 21...	62	18	1.8	--	420	--	.36	<.02	.04	2.0
JAN 16...	60	16	.4	2300	90	--	.39	.05	.05	3.0
FEB 13...	56	19	.6	2300	40	--	.44	.04	.05	<1.0
MAR 20...	58	16	.7	2300	40	--	.36	<.02	.04	3.0
APR 17...	65	13	.7	12650	90	--	.34	.07	.02	5.0
MAY 23...	62	15	.9	2300	230	--	.39	<.02	.04	3.0
JUN 19...	70	22	.5	9300	230	--	.42	.05	.05	3.0
JUL 19...	67	34	1.0	4300	230	20	.37	.02	.06	2.0
AUG 20...	76	28	.3	3900	150	21	.38	<.02	.04	5.0
SEP 19...	83	16	--	2300	90	25	.28	.02	.07	3.0

02207500 YELLOW RIVER NEAR COVINGTON, GA.

LOCATION.--Lat 33°36'52", long 83°54'54", Newton County, Hydrologic Unit 03070103, at downstream end of left bank pier of bridge on State Highway 12, 50 ft (15 m) downstream from Interstate Highway 20, 0.2 mi (0.3 km) downstream from Georgia Railroad bridge, 0.5 mi (0.8 km) downstream from Gum Creek, and 3.5 mi (5.6 km) northwest of Covington.

DRAINAGE AREA.--378 mi^2 (979 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September to December 1897, May 1899 to December 1901, July 1944 to September 1960, October 1975 to current year. Published as "at Almon", 1897-1901. Water years 1961-65 (annual maximum only).

REVISED RECORDS.--WSP 1112: 1945(M), 1946. WSP 1624: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 616.99 ft (188.06 m) National Geodetic Vertical Datum of 1929. September to December 1897, staff gage at about same site at different datum. May 1899 to December 1901, staff gage at site 1 mi (1.6 km) upstream at different datum.

REMARKS.--Records good except those for period of missing record, April 8 to May 11, which are fair.

AVERAGE DISCHARGE.--21 years (1899-1901, 1944-60, 1975-78), 467 ft^3/s (13.2 m^3/s), 16.78 in/yr (426.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,200 ft^3/s (459 m^3/s) Nov. 29, 1948, gage height, 20.3 ft (6.19 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Oct. 7, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,500 ft^3/s (99.1 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 26	2200	*6000	170	15.20	4.633	May 9	unknown	3500	99.1	12.03	3.667

Minimum daily discharge, 83 ft^3/s (2.35 m^3/s) July 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	149	301	484	623	799	441	349	1000	265	107	214	138
2	153	287	481	516	743	411	345	940	241	107	213	132
3	372	296	406	454	692	455	336	1080	230	104	155	169
4	279	432	366	406	671	537	327	1060	229	123	273	155
5	192	1770	364	404	612	460	318	935	216	138	1210	133
6	183	3200	367	467	581	484	313	800	284	130	892	124
7	172	3060	333	675	544	380	305	1700	201	115	982	120
8	163	1820	299	628	525	430	298	2500	363	99	1210	116
9	781	1020	297	954	514	580	304	2600	521	95	690	110
10	2270	737	309	1190	515	1390	300	1500	360	98	564	105
11	1390	591	289	776	496	1540	400	1100	281	114	478	103
12	542	490	281	607	476	981	525	799	247	92	723	105
13	362	432	280	648	481	779	660	681	304	89	693	106
14	280	393	313	729	515	715	600	618	297	89	463	106
15	234	365	384	618	481	763	500	515	226	95	343	112
16	214	356	352	533	452	631	418	469	205	118	559	115
17	202	365	323	651	435	554	411	433	198	183	497	118
18	190	429	382	1100	434	501	495	410	187	136	349	119
19	181	367	439	972	455	471	650	447	178	108	283	109
20	173	332	385	1630	429	452	625	391	169	96	244	101
21	166	313	350	2090	402	447	540	357	165	88	217	98
22	163	307	324	1320	388	441	450	328	175	85	201	91
23	158	333	302	896	369	423	400	302	160	83	189	98
24	155	412	296	784	365	405	370	312	149	88	184	110
25	373	364	437	1790	360	396	410	310	140	131	166	170
26	2140	326	628	5030	354	402	460	281	138	214	157	146
27	2050	299	453	5570	347	400	495	287	131	224	156	128
28	884	309	380	3400	364	372	470	278	127	215	185	117
29	543	512	349	1550	---	355	410	361	120	187	176	110
30	415	468	422	1060	---	345	860	410	112	142	156	104
31	340	---	720	898	---	343	---	310	---	121	150	---
TOTAL	15869	20686	11803	38969	13799	17204	13344	23514	6539	3814	12972	3568
MEAN	512	690	381	1257	493	555	445	759	218	123	418	119
MAX	2270	3200	720	5570	799	1540	860	2600	521	224	1210	170
MIN	149	287	280	404	347	343	298	278	112	83	150	91
CFSM	1.35	1.83	1.01	3.33	1.30	1.47	1.18	2.01	.58	.33	1.11	.32
IN.	1.56	2.04	1.16	3.84	1.36	1.69	1.31	2.31	.64	.38	1.28	.35

CAL YR 1977 TOTAL 165395 MEAN 453 MAX 3630 MIN 67 CFSM 1.20 IN 16.27
WTR YR 1978 TOTAL 182081 MEAN 499 MAX 5570 MIN 83 CFSM 1.32 IN 17.92

02207500 YELLOW RIVER NEAR COVINGTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1957 to May 1958, January 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN							
05...	1420	405	--	8.0	9	9.8	63
FEB							
15...	1700	475	5.5	6.0	22	28	--
MAR							
27...	1130	402	--	10	15	16	100
MAY							
11...	1530	1130	--	45	53	163	96
SEP							
12...	1045	106	--	8.0	14	4.0	100

02207540 YELLOW RIVER AT PORTERDALE, GA.

LOCATION.--Lat 33°34'17", long 83°53'50", Newton County, Hydrologic Unit 03070103, at bridge on State Highway 81 at Porterdale, 0.7 mi (1.1 km) downstream from Beaverdam Creek.

DRAINAGE AREA.--400 mi² (1,040 km²), approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 11...	0925	1950	6.8	18.0	15.0	7.2
NOV 15...	0845	458	7.1	5.0	6.5	11.2
DEC 13...	1000	339	7.0	9.0	5.0	12.2
JAN 10...	0830	1370	6.9	-12.2	5.0	--
FEB 07...	0830	601	6.6	-10.0	2.0	12.2
MAR 14...	0930	750	7.2	18.0	14.0	9.0
APR 10...	0855	322	7.2	23.0	19.5	8.2
MAY 16...	0850	510	6.9	17.0	16.0	8.6
JUN 13...	0915	310	6.9	26.0	23.0	5.4
JUL 10...	0915	149	7.0	27.0	27.0	6.4
AUG 14...	0855	518	7.1	29.0	23.5	6.7
SEP 12...	0955	135	6.9	26.0	23.5	6.7

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 11...	45	108	1.4	9300	930	--	.24	<.04	.15	8.0
NOV 15...	55	15	.6	2300	2300	--	.33	.02	.04	3.0
DEC 13...	58	14	.4	2300	230	--	.41	.04	.05	1.0
JAN 10...	51	144	1.7	--	2300	--	.30	<.02	.18	8.0
FEB 07...	47	21	--	2300	230	--	.44	.04	.04	<1.0
MAR 14...	48	28	.8	4300	90	--	.36	<.02	.05	<1.0
APR 10...	55	12	.6	9300	430	--	.28	<.02	<.02	3.5
MAY 16...	50	29	.3	2300	90	--	.32	<.02	.04	2.0
JUN 13...	54	34	.8	9300	2300	--	.40	<.02	.05	3.0
JUL 10...	64	15	2.0	4300	750	21	.34	.06	.05	1.0
AUG 14...	50	48	1.0	9300	390	16	.21	<.02	.06	2.0
SEP 12...	69	8	.5	15000	930	24	.28	.02	.04	<1.0

02208005 YELLOW RIVER NEAR STEWART, GA.

LOCATION.--Lat 33°26'26", long 83°52'43", Newton County, Hydrologic Unit 03070103, at bridge on State Highway 212, 2.5 mi (4.0 km) northwest of Stewart.
DRAINAGE AREA.--440 mi^2 (1,140 km^2), approximately.
PERIOD OF RECORD.--July 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 11...	1030	2450	6.7	18.0	16.0	9.4
NOV 15...	1145	470	7.2	15.0	9.0	10.9
DEC 13...	1140	310	7.1	10.5	5.0	12.5
JAN 10...	1000	1390	7.1	-11.5	4.0	--
FEB 07...	1000	650	6.5	-10.0	2.5	13.0
MAR 14...	1040	880	7.2	18.0	14.0	9.2
APR 10...	1110	345	7.2	24.0	19.5	8.4
MAY 16...	1015	600	6.5	19.0	17.0	8.2
JUN 13...	1100	300	7.2	28.5	24.0	6.4
JUL 10...	1100	140	7.1	29.0	26.0	6.2
AUG 14...	1030	620	6.9	32.0	24.0	6.9
SEP 12...	1145	125	7.0	27.0	23.5	6.8

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 11...	45	132	25	1.5	1500	--	132	.30	<.04	.54	.20	8.0
NOV 15...	58	15	<5	.4	2300	--	14	.34	.05	.19	.13	4.0
DEC 13...	61	13	16	.6	145	--	<1	.48	.03	<.20	.11	1.5
JAN 10...	50	192	31	1.5	6800	--	212	.37	<.02	.62	.23	10
FEB 07...	49	21	7	--	70	--	5	.46	.03	--	.07	<1.0
MAR 14...	47	30	6	.8	390	--	49	.40	<.02	.15	.07	<1.0
APR 10...	56	13	10	1.4	485	--	9	.27	.03	.20	.13	3.0
MAY 16...	51	30	4	.2	1500	--	27	.37	<.02	.50	.09	7.0
JUN 13...	61	31	8	1.2	2300	--	31	.53	<.02	.20	.26	3.0
JUL 10...	85	18	--	1.2	3900	23	12	.80	.03	--	.37	1.5
AUG 14...	50	75	--	1.2	2300	14	63	.22	.02	--	.10	4.0
SEP 12...	75	7	--	.5	9300	23	20	.44	<.02	--	.16	<1.0

02208450 ALCOVY RIVER ABOVE COVINGTON, GA.

LOCATION.—Lat 33°38'24", long 83°46'45", Newton County, Hydrologic Unit 03070103, at right bank on city of Covington water works intake structure, 400 ft (122 m) upstream from bridge on Alcovy Road, 600 ft (183 m) upstream from Georgia Railroad treatle, and 6 mi (10 km) northeast of Covington.
DRAINAGE AREA.—185 mi^2 (479 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—January 1972 to current year.
GAGE.—Water-stage recorder. Altitude of gage is 650 ft (198 m), from topographic map.
REMARKS.—Records good.
AVERAGE DISCHARGE.—6 years, 284 ft^3/s (8.04 m^3/s), 20.85 in/yr (529.6 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 6,530 ft^3/s (185 m^3/s) Mar. 16, 1976, gage height, 14.79 ft (4.508); minimum daily, 25 ft^3/s (.71 m^3/s) Sept. 17, 1972.
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 1,800 ft^3/s (51.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 26	2200	1830	51.8	10.13	3.088	Jan. 26	1500	*2970	84.1	11.78	3.591
Nov. 7	0900	2080	58.9	10.55	3.216						

Minimum discharge, 31 ft^3/s (0.88 m^3/s) July 13, 22, 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	218	246	387	464	237	225	317	116	40	140	52
2	94	193	257	335	432	238	220	519	111	44	85	54
3	159	185	250	275	409	256	214	476	103	44	54	218
4	195	225	225	238	382	281	209	457	100	41	187	128
5	168	727	217	221	354	283	204	600	99	40	263	72
6	106	1850	222	235	333	255	199	414	92	39	256	61
7	85	1980	205	301	311	231	195	357	89	42	387	58
8	79	1320	183	328	293	249	189	426	116	39	345	57
9	242	790	178	364	289	331	185	1060	245	38	288	52
10	732	563	178	392	288	663	179	1110	252	42	230	50
11	930	431	172	387	279	741	184	1000	169	35	208	48
12	670	351	167	386	266	719	229	632	134	33	205	47
13	312	300	164	365	269	582	316	434	120	32	205	47
14	179	266	176	394	286	481	351	356	116	34	168	48
15	137	242	207	370	275	458	300	302	104	41	133	50
16	120	228	210	321	257	425	236	259	92	56	111	55
17	108	234	195	333	242	377	204	230	84	68	141	58
18	97	235	208	457	238	336	220	215	80	69	138	55
19	93	233	223	516	245	313	332	229	79	50	127	48
20	86	216	226	671	245	297	361	224	76	38	113	43
21	82	200	205	741	232	289	330	196	73	34	86	40
22	80	192	187	705	222	283	271	172	74	32	74	37
23	80	198	177	585	216	272	222	157	79	32	66	37
24	77	204	176	456	214	264	203	151	69	41	60	59
25	102	209	208	872	212	258	209	146	62	46	56	73
26	1130	198	258	2720	209	258	229	140	60	46	53	72
27	1460	182	285	2290	205	269	255	131	56	67	54	65
28	945	182	241	1490	212	261	242	126	53	116	57	56
29	598	199	210	837	---	243	293	139	49	127	65	51
30	362	228	232	641	---	236	184	137	45	77	59	48
31	265	---	358	527	---	230	---	130	---	57	53	---
TOTAL	9852	12779	6646	19140	7879	10616	7100	11242	2999	1540	4467	1839
MEAN	318	426	214	617	281	342	237	363	100	49.7	144	61.3
MAX	1460	1980	358	2720	464	741	361	1110	252	127	387	218
MIN	77	182	164	221	205	230	179	126	45	32	53	37
CFSM	1.72	2.30	1.16	3.34	1.52	1.85	1.28	1.96	.54	.27	.78	.33
IN.	1.98	2.57	1.34	3.85	1.58	2.13	1.43	2.26	.60	.31	.90	.37

CAL YR 1977 TOTAL 88372 MEAN 242 MAX 1980 MIN 31 CFSM 1.31 IN 17.77
WTR YR 1978 TOTAL 96099 MEAN 263 MAX 2720 MIN 32 CFSM 1.42 IN 19.32

02208450 ALCOVY RIVER ABOVE COVINGTON, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: May 1972 to September 1978 (discontinued).
EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: Maximum, 28.0°C July 8, 9, 13-15, 1977; minimum, 0.0°C Jan. 10, 19, 20, 1976, Jan. 12, 17, 1977.
EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURES: Maximum recorded, 27.5°C June 29, 30; minimum, 0.5°C Jan. 11, 12, 30.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.0	20.5	17.0	14.5	12.5	11.0	---	---	4.5	2.0	10.5	7.0
2	23.0	22.0	16.5	15.5	11.0	9.5	---	---	6.5	4.0	8.5	6.5
3	23.0	20.5	17.0	16.5	10.5	8.0	---	---	5.5	4.5	6.5	5.5
4	20.0	17.5	18.5	17.0	12.5	9.5	---	---	6.0	3.0	8.0	4.5
5	18.0	16.0	19.0	18.5	14.5	11.5	---	---	6.0	2.5	7.5	3.5
6	17.5	16.0	19.0	18.5	13.5	10.5	7.5	5.0	4.5	2.5	9.5	4.5
7	18.0	16.5	18.5	17.5	---	---	9.5	7.5	3.0	1.0	8.5	6.5
8	18.0	17.5	18.0	17.5	---	---	11.5	10.0	2.5	1.0	8.5	7.5
9	20.0	18.0	18.0	16.5	---	---	10.5	4.0	5.5	2.0	7.5	6.0
10	19.5	17.0	18.0	13.5	---	---	3.5	1.0	6.5	3.5	9.5	6.0
11	17.0	17.0	13.0	10.5	---	---	1.5	.5	7.0	3.5	11.5	7.5
12	17.0	16.0	11.0	9.0	---	---	1.5	.5	8.0	4.0	13.5	10.5
13	16.0	15.0	9.5	7.5	---	---	2.5	1.5	8.0	5.5	15.0	11.0
14	14.5	12.5	9.5	6.5	---	---	2.5	1.5	7.0	5.5	18.5	14.0
15	13.5	11.0	9.5	6.5	---	---	2.5	1.0	8.0	4.0	18.5	14.5
16	13.5	12.5	---	---	---	---	3.0	1.0	8.5	6.0	17.0	13.0
17	13.0	11.0	---	---	---	---	4.0	2.5	8.5	7.0	13.0	10.0
18	12.5	10.0	---	---	---	---	5.5	3.5	8.5	7.0	12.5	8.0
19	13.5	11.5	---	---	---	---	5.0	5.0	8.5	6.0	14.0	8.0
20	13.5	11.0	---	---	---	---	5.0	4.5	8.0	5.0	15.5	10.0
21	13.5	11.5	---	---	---	---	4.5	3.0	6.0	4.5	16.5	12.5
22	13.5	11.0	---	---	---	---	4.5	3.0	5.5	2.5	18.0	11.5
23	13.5	11.5	---	---	---	---	4.5	2.5	5.0	2.5	18.0	13.0
24	14.5	12.5	16.5	14.5	---	---	4.5	3.5	7.5	3.5	18.0	13.5
25	16.0	14.5	16.0	14.0	---	---	8.0	4.5	9.5	4.0	19.0	15.5
26	17.5	16.0	14.0	9.0	---	---	8.0	5.5	10.0	7.0	15.5	12.5
27	17.5	16.5	8.5	6.5	---	---	5.5	3.5	9.5	6.0	13.0	10.5
28	17.5	16.5	9.0	8.0	---	---	3.5	2.0	8.5	7.5	15.0	9.5
29	18.5	17.0	10.5	9.0	---	---	2.5	1.0	---	---	17.0	10.5
30	18.0	16.5	11.5	10.5	---	---	2.5	.5	---	---	18.5	12.5
31	16.5	15.5	---	---	---	---	3.5	1.0	---	---	19.0	13.5
MONTH	23.0	10.0	19.0	6.5	14.5	8.0	11.5	.5	10.0	1.0	19.0	3.5

02208450 ALCOVY RIVER ABOVE COVINGTON, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	20.0	14.5	16.5	15.5	23.0	20.5	26.5	24.5	---	---	---	---
2	20.5	15.5	16.0	15.0	23.0	21.0	27.0	24.5	---	---	---	---
3	21.0	16.0	15.5	14.5	23.0	22.0	26.5	25.0	---	---	---	---
4	21.0	16.5	16.0	14.5	23.5	21.5	26.5	25.0	---	---	---	---
5	21.5	17.0	16.5	14.5	23.0	20.5	26.0	24.5	---	---	---	---
6	20.5	17.5	18.0	15.0	23.0	21.0	24.5	24.0	---	---	---	---
7	21.5	17.0	18.0	17.0	23.5	21.5	25.0	23.0	---	---	---	---
8	21.0	16.5	19.0	17.5	22.5	22.0	25.5	22.5	---	---	---	---
9	21.0	17.0	19.0	18.0	23.0	21.5	26.0	23.0	25.0	24.0	---	---
10	21.5	17.5	18.5	17.5	23.0	21.5	26.5	24.0	24.0	23.5	---	---
11	19.5	18.5	18.0	16.5	23.5	22.0	26.5	24.5	24.0	23.5	---	---
12	19.5	17.0	17.5	16.0	24.0	22.0	24.5	23.5	24.0	23.5	23.5	23.0
13	18.0	16.5	19.0	17.5	24.0	21.5	24.5	23.0	25.0	23.5	24.0	22.0
14	18.0	14.5	18.5	17.0	23.0	20.5	---	---	25.5	23.5	23.5	23.0
15	19.0	15.0	17.0	15.5	22.5	20.5	---	---	25.5	24.0	23.0	22.5
16	19.0	15.5	16.5	14.5	22.5	20.5	---	---	25.5	24.0	23.5	22.0
17	19.0	15.5	17.5	14.5	22.5	20.0	---	---	26.0	24.0	24.0	22.0
18	18.0	17.0	18.5	16.0	22.5	20.5	---	---	25.5	24.0	24.5	22.5
19	19.0	16.5	19.5	17.0	22.5	20.5	---	---	26.0	24.0	25.0	22.5
20	16.5	14.5	20.5	17.5	23.0	21.0	---	---	26.5	25.0	24.5	23.0
21	15.0	12.5	21.5	18.5	23.5	21.5	---	---	---	---	---	---
22	15.0	11.0	22.0	19.0	24.5	22.0	---	---	---	---	---	---
23	14.5	11.5	22.0	20.0	25.0	22.5	---	---	---	---	---	---
24	16.5	13.0	22.5	20.5	25.0	22.5	---	---	---	---	---	---
25	17.0	15.0	23.0	20.5	25.0	22.5	---	---	---	---	---	---
26	15.5	13.5	23.5	21.0	25.5	23.5	---	---	---	---	---	---
27	15.5	12.0	23.5	22.0	26.5	23.5	---	---	---	---	---	---
28	16.0	12.0	23.5	21.5	27.0	24.0	---	---	---	---	---	---
29	16.5	12.5	22.5	21.0	27.5	24.5	---	---	---	---	---	---
30	17.0	14.5	22.5	21.0	27.5	24.5	---	---	---	---	---	---
31	---	---	23.0	20.5	---	---	---	---	---	---	---	---
MONTH	21.5	11.0	23.5	14.5	27.5	20.0	27.0	22.5	26.5	23.5	25.0	22.0
YEAR	27.5	.5										

02209260 ALCOVY RIVER ABOVE STEWART, GA.

LOCATION.--Lat 33°26'58", long 83°49'42", Newton County, Hydrologic Unit 03070103, at bridge on Newton Factory Bridge Road, 2.6 mi (4.2 km) northeast of Stewart.
DRAINAGE AREA.--250 mi^2 (650 km^2), approximately.
PERIOD OF RECORD.--July 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	PH (UNITS)	TEMPER- ATURE, AIR (DEG C)	TEMPER- ATURE (DEG C)	OXYGEN, DIS- SOLVED (MG/L)
OCT 11...	1120	6.6	20.0	15.5	8.8
NOV 15...	1210	7.0	16.0	8.0	11.5
DEC 13...	1210	7.0	13.0	4.5	12.6
JAN 10...	1025	6.8	-11.1	6.0	12.3
FEB 07...	1020	6.7	-9.5	3.0	13.0
MAR 14...	1115	6.1	19.0	14.5	9.9
APR 10...	1045	7.2	24.0	19.5	9.0
MAY 16...	1040	6.6	20.0	17.0	9.4
JUN 13...	1200	7.0	29.0	23.0	6.9
JUL 10...	1140	7.2	28.0	26.0	7.2
AUG 14...	1150	6.6	31.0	24.0	7.5
SEP 12...	1220	7.2	29.5	23.5	7.6

DATE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	TUR- BID- ITY (JTU)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	ALKA- LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 11...	41	96	2.0	4300	--	66	.32	<.04	.20	9.0
NOV 15...	43	11	.8	160	--	1	.18	<.02	.03	4.0
DEC 13...	49	13	1.8	230	--	<1	.35	.04	.03	1.0
JAN 10...	42	19	.8	430	--	22	.32	<.02	.04	3.0
FEB 07...	38	15	--	35	--	3	.39	.17	.02	<1.0
MAR 14...	42	30	.7	230	--	33	.31	.05	.04	3.0
APR 10...	49	14	.8	110	--	2	.53	.07	<.02	4.0
MAY 16...	43	26	.2	62	--	6	.27	<.02	.05	3.0
JUN 13...	46	112	1.0	1500	--	72	.42	.03	.12	5.0
JUL 10...	57	15	1.0	90	21	7	.32	.05	.04	2.0
AUG 14...	46	34	.7	90	14	25	.18	.02	.06	4.0
SEP 12...	57	12	.4	90	20	13	.31	<.02	.05	4.0

02210500 OCMULGEE RIVER NEAR JACKSON, GA.

LOCATION.--Lat 33°18'27", long 83°50'18", Butts-Jasper County line, Hydrologic Unit 03070103, on right bank 500 ft (152 m) upstream from bridge on State Highway 16, 0.5 mi (0.8 km) upstream from Yellow Water Creek, 1 mi (1.6 km) downstream from Lloyd Shoals Dam, and 7 mi (11 km) east of Jackson.

DRAINAGE AREA.--1,420 mi^2 (3,680 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1906 to September 1915, August 1939 to September 1960, October 1975 to current year. Water years 1920, 1961-65 (annual maximum only).

GAGE.--Water-stage recorder. Datum of gage is 419.29 ft (127.80 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1913, staff gage, Jan. 1 to Dec. 31, 1913, water-stage recorder, Jan. 1, 1914, to Dec. 31, 1915, staff gage, and August 1939 to September 1960, water-stage recorder, all at present site and datum.

REMARKS.--Records good except those of June 12 to August 12, which are fair. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

AVERAGE DISCHARGE.--33 years (1906-15, 1939-60, 1975-78), 1,726 ft^3/s (48.9 m^3/s), 16.51 in/yr (419.4 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,600 ft^3/s (1,600 m^3/s) Nov. 28, 1948, gage height, 23.9 ft (7.28 m); minimum daily, 18 ft^3/s (0.51 m^3/s) Nov. 20, 1910.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 26.8 ft (8.17 m) Dec. 11, 1919, from graph based on gage readings, discharge, 69,000 ft^3/s (1,950 m^3/s), by computation of flow over dam.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 26,100 ft^3/s (739 m^3/s) Jan. 26, gage height, 14.75 ft (4.496 m); minimum daily, 640 ft^3/s (18.1 m^3/s) June 29, July 30, Aug. 1, Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1890	2240	1540	2300	3500	2320	721	2720	1430	683	640	689
2	716	3140	2200	2170	3480	2130	724	5380	698	650	650	701
3	691	3230	739	2140	3450	2220	1240	5410	1620	660	1230	733
4	722	3250	683	1790	3400	701	1130	4780	710	680	1750	696
5	859	3500	2050	1110	3330	700	1160	3580	1440	680	2380	727
6	1030	4530	1890	1170	3040	1150	1120	3580	686	650	3140	726
7	682	6680	2250	2050	2890	2190	1080	3570	1100	650	2740	940
8	717	8110	704	1880	2010	2140	851	3910	1980	660	1870	712
9	728	6150	705	2070	1590	2360	728	5500	2720	650	2220	717
10	2140	4280	697	2660	2030	2760	1130	14200	1090	660	3050	730
11	2350	3570	693	2840	1690	3500	1400	8650	731	650	3080	739
12	3150	3170	741	3150	1490	3500	988	5500	1090	660	2920	737
13	2960	2190	961	2410	2020	3160	2170	4250	1140	650	2620	731
14	1950	2390	1400	2320	1900	3350	1940	3820	1130	690	2310	745
15	2030	2210	1260	2730	2150	3050	705	1970	683	690	1150	723
16	1170	2350	712	2380	2220	3040	709	744	690	683	1070	711
17	1180	1540	730	2350	1670	2990	1460	714	705	660	1540	705
18	1120	1120	727	2720	705	1440	2400	1200	672	660	1750	705
19	1390	691	775	3560	699	1360	2990	1090	964	650	651	698
20	1290	692	1380	3660	1500	2230	2320	713	870	738	647	693
21	714	2020	1590	4600	1450	2360	2100	729	660	672	824	683
22	715	1920	1090	4230	1550	786	709	1880	683	683	650	678
23	698	1970	1130	3320	1380	2240	708	725	844	672	1040	686
24	707	1670	1730	3370	696	2170	1770	1130	672	683	947	663
25	1610	1090	2020	7360	693	2030	1950	1300	683	705	655	656
26	2960	956	1540	23100	696	712	2180	1370	1240	694	658	698
27	3380	712	1970	20700	1440	2020	1080	671	860	1080	654	650
28	3510	2010	1550	11400	1450	2180	958	677	1090	660	715	650
29	3460	1900	1320	7560	---	2120	699	1130	640	660	701	650
30	2800	1470	2490	5650	---	2060	1760	1380	670	640	688	640
31	2240	---	1720	3510	---	1030	---	1070	---	650	681	---
TOTAL	51559	80751	40987	142260	54119	65999	40880	93343	30191	21153	45621	21212
MEAN	1663	2692	1322	4589	1933	2129	1363	3011	1006	682	1472	707
MAX	3510	8110	2490	23100	3500	3500	2990	14200	2720	1080	3140	940
MIN	682	691	683	1110	693	700	699	671	640	640	640	640
MEAN†	1712	2442	1431	4768	1699	2168	1642	2978	900	653	1545	489
CFSM†	1.21	1.72	1.01	3.36	1.20	1.53	1.16	2.10	0.63	0.46	1.09	0.34
IN†	1.40	1.92	1.16	3.87	1.25	1.76	1.29	2.42	0.70	0.53	1.26	0.38

CAL YR 1977 TOTAL 639596 MEAN 1752 MAX 10500 MIN 580 MEAN† 1745 CFSM† 1.23 IN† 16.70
WTR YR 1978 TOTAL 688075 MEAN 1885 MAX 23100 MIN 640 MEAN† 1876 CFSM† 1.32 IN† 17.92

† Adjusted for change in contents in Lloyd Shoals Reservoir.

02210500 OCMULGEE RIVER NEAR JACKSON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 11...	1200	3190	7.1	20.0	20.0	3.2
NOV 15...	1245	3040	6.7	16.0	14.0	5.6
DEC 13...	1250	844	6.6	14.5	9.5	7.9
JAN 10...	1200	2660	7.0	-5.5	7.5	9.3
FEB 07...	1100	3120	6.7	-6.5	4.0	10.2
MAR 14...	1230	3580	7.0	22.0	9.5	9.4
APR 10...	1130	3120	7.1	27.0	17.0	8.9
MAY 16...	1115	749	6.5	22.0	21.0	6.9
JUN 13...	1255	661	6.7	29.0	25.0	2.8
JUL 10...	1230	630	6.7	29.0	27.0	2.4
AUG 14...	1300	2590	6.7	31.0	25.5	4.2
SEP 12...	1330	705	6.5	30.5	26.0	1.7

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 11...	88	15	3.5	90	--	10	.30	<.04	.14	4.0
NOV 15...	63	24	1.1	230	--	7	.30	.33	.10	5.0
DEC 13...	74	16	1.1	<30	--	<1	.62	.39	.15	2.5
JAN 10...	71	15	1.2	150	--	16	.74	.17	.16	3.0
FEB 07...	47	73	--	<30	--	18	.45	<.02	.14	2.0
MAR 14...	65	48	1.5	430	--	51	.06	.28	.20	3.0
APR 10...	60	10	1.5	<30	--	4	.80	.12	.10	3.0
MAY 16...	48	50	1.6	125	--	5	.27	.04	.10	5.0
JUN 13...	70	10	1.0	<30	--	<1	.72	.17	.14	3.0
JUL 10...	84	7	1.0	<60	24	3	.33	.32	.13	2.5
AUG 14...	67	44	1.9	430	16	10	.42	.18	.15	4.0
SEP 12...	85	6	1.8	<30	25	2	.37	.41	.15	<1.0

02211459 BIG TOWALIGA CREEK NEAR BARNESVILLE, GA.

LOCATION.--Lat 33°04'20", long 84°22'04", Lamar County, Hydrologic Unit 03070103, on right bank 26 ft (7.9 m) upstream from culvert on county road, 2.1 mi (3.4 km) northwest of Barnesville, and 6.2 mi (10.0 km) upstream from Little Towaliga River.

DRAINAGE AREA.--2.36 mi^2 (6.11 km^2).

PERIOD OF RECORD.--Annual maximum, water years 1969-74, October 1974 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 695 ft (212 m), from topographic map.

REMARKS.--Records fair except those for periods of no gage-height record, Oct. 1-31, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 761 ft^3/s (21.6 m^3/s) Nov. 5, 1977, gage height, 8.48 ft (2.585 m); minimum daily, 0.48 ft^3/s (0.014 m^3/s) July 23, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 180 ft^3/s (5.10 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 5	0[illegible]5	*761	21.6	8.48	2.585	Jan. 25	1800	380	10.8	6.37	1.942

Minimum daily, 0.48 ft^3/s (0.014 m^3/s) July 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.90	1.2	3.8	4.4	4.8	3.6	3.4	8.3	1.4	.66	.78	1.1
2	1.2	1.3	2.1	3.5	8.5	3.2	3.3	3.8	1.4	.65	.74	1.1
3	1.0	1.5	1.9	3.0	5.5	7.1	3.2	5.2	2.3	.95	.70	1.1
4	.90	6.6	1.9	2.7	4.8	4.2	3.3	6.4	1.6	1.0	3.5	1.1
5	.78	85	2.3	2.5	4.5	3.5	3.2	3.9	1.4	.95	1.6	1.0
6	.70	12	2.1	3.2	4.1	3.2	3.2	3.1	3.6	1.0	1.0	1.0
7	.80	7.9	2.1	2.8	3.9	3.9	3.0	5.3	2.3	1.0	1.2	.94
8	1.0	5.3	2.1	6.1	4.0	5.5	3.0	6.5	3.2	.98	1.0	.93
9	2.0	3.5	2.4	4.9	4.0	23	2.9	14	2.2	2.1	12	.96
10	10	2.8	2.0	3.5	3.7	18	3.1	6.2	1.6	2.4	5.5	.90
11	4.0	2.4	1.9	3.1	3.5	8.3	2.8	4.1	1.4	.88	5.7	.91
12	2.0	2.2	1.9	2.9	3.4	8.1	3.0	3.4	1.4	.86	8.5	.85
13	1.1	2.2	1.7	4.2	3.7	5.8	7.2	3.0	1.3	.85	4.9	.80
14	.94	2.2	3.3	3.5	3.4	9.7	3.3	2.5	1.2	.82	3.0	.96
15	.90	2.1	2.4	2.9	3.4	6.3	2.7	2.3	1.2	.85	2.3	1.1
16	1.2	2.1	2.0	2.8	3.4	5.2	2.4	2.3	1.1	.86	2.1	.88
17	1.0	1.9	2.0	8.1	3.4	4.4	2.2	2.2	1.2	.81	1.8	.80
18	.90	1.9	2.8	4.8	4.1	4.1	6.8	2.1	1.1	.67	1.7	.78
19	.86	2.1	2.1	12	3.6	3.9	5.9	2.0	1.0	.63	1.7	.76
20	.84	2.2	1.9	11	3.3	3.7	3.4	1.8	.96	.62	1.6	.75
21	.82	2.2	1.9	5.6	3.1	4.1	2.9	1.8	.92	.59	1.6	.73
22	.80	2.0	1.9	4.5	3.0	4.4	2.7	1.7	.89	.55	1.5	.70
23	.78	2.1	1.7	3.9	3.0	3.9	2.4	1.8	.88	.48	1.4	.77
24	5.0	2.3	1.8	5.6	3.0	3.7	2.3	1.7	.84	.54	1.4	.85
25	50	2.3	4.2	100	2.8	3.6	2.6	1.6	.81	1.5	1.4	.85
26	20	2.5	2.4	20	2.8	3.7	2.7	1.5	.80	1.2	1.3	.67
27	10	2.5	2.1	11	2.7	3.7	2.4	1.4	.78	2.5	1.3	.67
28	3.0	2.5	1.9	9.1	4.8	3.7	2.1	1.4	.77	1.5	1.3	.65
29	2.0	2.5	1.9	8.2	---	3.6	2.1	2.0	.71	.92	1.1	.64
30	1.5	2.8	11	5.9	---	3.6	2.1	1.6	.69	.88	1.1	.66
31	1.2	---	6.9	5.0	---	3.4	---	1.5	---	.83	1.1	---
TOTAL	128.12	172.1	82.4	270.7	108.2	176.3	95.6	106.4	40.95	31.03	75.82	25.91
MEAN	4.13	5.74	2.66	8.73	3.86	5.69	3.19	3.43	1.37	1.00	2.45	.86
MAX	50	85	11	100	8.5	23	7.2	14	3.6	2.5	12	1.1
MIN	.70	1.2	1.7	2.5	2.7	3.2	2.1	1.4	.69	.48	.70	.64
CFSM	1.75	2.43	1.13	3.70	1.64	2.41	1.35	1.45	.58	.42	1.04	.36
IN.	2.02	2.71	1.30	4.27	1.70	2.78	1.51	1.68	.65	.49	1.19	.41

CAL YR 1977 TOTAL 1355.38 MEAN 3.71 MAX 85 MIN .70 CFSM 1.57 IN 21.36
WTR YR 1978 TOTAL 1313.53 MEAN 3.60 MAX 100 MIN .48 CFSM 1.53 IN 20.70

02212500 OCMULGEE RIVER AT JULIETTE, GA.

LOCATION.—Lat 33°05'50", long 83°47'10", Monroe-Jones County line, Hydrologic Unit 03070103, on left bank 0.9 mi (1.4 km) downstream from Juliette Mills at Juliette, and 2.5 mi (4.0 km) downstream from Towaliga River.

DRAINAGE AREA.—1,960 mi^2 (5,080 km^2).

PERIOD OF RECORD.—June 1916 to September 1921, July 1974 to current year.

REVISED RECORDS.—WSP 1724: Drainage area.

GAGE.—Water-stage recorder. Datum of gage is 340.97 ft (103.93 m) National Geodetic Vertical Datum of 1929.

REMARKS.—Records good. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin," station 02210000.)

AVERAGE DISCHARGE.—9 years (1916-21, 1974-78), 2,765 ft^3/s (78.3 m^3/s), 19.16 in/yr (486.7 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 52,900 ft^3/s (1,500 m^3/s) Dec. 11, 1919, gage height, 30.8 ft (9.39 m); minimum daily, 438 ft^3/s (12.4 m^3/s) Oct. 28, 1918.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known, about 32 ft (9.75 m) in May 1886, from floodmarks, discharge, 55,800 ft^3/s (1,580 m^3/s).

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 34,400 ft^3/s (974 m^3/s) Jan. 26, gage height, 22.32 ft (6.803 m); minimum daily, 662 ft^3/s (18.7 m^3/s) July 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1430	2280	2030	3930	4640	2260	1140	3880	1380	707	725	795
2	1420	3170	1890	2360	4660	2880	1110	8510	1370	684	716	776
3	890	3300	1980	2890	4580	2950	1250	7870	1270	705	750	794
4	885	3470	1070	2590	4390	2030	1530	6820	1370	684	1680	798
5	842	5000	1610	1730	4270	1250	1670	4910	1140	670	2940	772
6	1010	8470	2630	1750	3960	1620	1420	4550	1250	664	3700	755
7	1080	8180	2280	1900	3820	2130	1340	4340	873	662	3820	929
8	845	9340	1800	2670	2700	2970	1120	4770	1780	666	2300	766
9	903	7390	1070	2410	2320	4310	1140	8540	2930	671	2300	734
10	1780	5140	1070	3250	2620	7080	1370	15700	1480	699	4960	741
11	2030	3980	1040	3180	2470	6380	1400	12700	1150	789	4480	743
12	3150	3670	1050	3540	2470	5210	1580	7120	889	741	4550	734
13	3140	2660	1250	2920	2320	4550	2160	5530	1260	733	3520	735
14	2320	2630	1660	2930	2500	4480	2680	4640	1260	711	3020	776
15	1870	2660	1730	3350	2560	4440	1870	3550	1140	756	1460	809
16	1830	2500	1200	2850	2780	4020	1110	1290	775	766	1400	885
17	1330	2210	1120	3120	2520	3840	1670	1180	772	750	1420	787
18	1250	1870	1150	3540	1610	2470	2140	1580	766	717	2080	777
19	1480	1090	1200	4810	1250	2240	3850	1490	780	700	1330	756
20	1430	1040	1450	6440	1920	2250	3070	1110	980	718	849	749
21	911	1830	1900	5910	1960	2790	2640	1060	914	716	991	741
22	879	2160	1400	5760	2040	2130	1620	1800	744	701	842	738
23	867	2270	1740	4200	1800	2170	1050	1410	728	679	865	746
24	865	2260	1630	3930	1310	2680	1690	1030	855	696	1180	741
25	1100	1700	2280	11500	1130	2460	2060	1500	711	749	1020	762
26	3100	1200	2360	28700	1130	1890	2620	1520	823	862	796	787
27	3740	1140	2320	29500	1550	1800	1760	1440	1170	886	820	756
28	3710	1490	2320	19200	2160	2600	1410	917	936	1180	848	745
29	3610	2300	1830	8740	---	2530	1250	1010	1010	823	838	744
30	3330	2060	2480	8350	---	2500	1600	1370	675	772	818	729
31	2220	---	3680	4850	---	2080	---	1620	---	738	795	---
TOTAL	55247	98460	54220	192800	73440	94990	52320	124757	33181	22995	57813	23012
MEAN	1782	3282	1749	6219	2623	3064	1744	4024	1106	742	1865	767
MAX	3740	9340	3680	29500	4660	7080	3850	15700	2930	1180	4960	929
MIN	842	1040	1040	1730	1130	1250	1050	917	675	662	716	729

CAL YR 1977 TOTAL 838245 MEAN 2297 MAX 14300 MIN 772 MEAN† 2290 CFSM† 1.17 IN† 15.88
WTR YR 1978 TOTAL 883235 MEAN 2420 MAX 29500 MIN 662 MEAN† 2411 CFSM† 1.23 IN† 16.70

† Adjusted for change in contents in Lloyd Shoals Reservoir.

02212600 FALLING CREEK NEAR JULIETTE, GA.
(Hydrologic bench-mark station)

LOCATION.—Lat 33°05'59", long 83°43'25", Jones County, Hydrologic Unit 03070103, on left bank 100 ft (30 m) upstream from highway bridge, 4 mi (6.4 km) upstream from Caney Creek, and 5.1 mi (8.2 km) east of Juliette.
DRAINAGE AREA.—72.2 mi² (187 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—July 1964 to current year.
GAGE.—Water-stage recorder. Altitude of gage is 370 ft (113 m), from topographic map.
REMARKS.—Records good.
AVERAGE DISCHARGE.—14 years, 68.4 ft³/s (1.94 m³/s), 12.87 in/yr (326.9 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 7,700 ft³/s (218 m³/s) Mar. 2, 1971, gage height, 23.0 ft (7.010 m), from floodmark; minimum, 0.14 ft³/s (0.004 m³/s) Sept. 29, 30, 1972.
EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 1,100 ft³/s (31.2 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Jan. 26	0445	*3280	92.9	17.36	5.291
Mar. 10	0745	1380	39.1	11.82	3.603

Minimum discharge, 2.0 ft³/s (0.057 m³/s) Sept. 13, 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	11	22	131	75	59	32	248	13	3.9	6.5	3.8
2	13	11	24	74	90	49	30	348	11	3.8	4.8	3.7
3	14	12	21	52	82	92	30	110	14	3.7	3.4	3.7
4	13	33	19	41	66	94	29	213	23	4.0	27	3.7
5	12	206	21	36	59	64	27	138	17	4.0	68	3.5
6	12	124	29	36	55	54	26	70	14	3.8	35	3.5
7	11	59	24	38	51	59	25	64	12	3.8	33	3.5
8	11	36	20	36	50	171	24	124	16	3.6	38	3.4
9	14	27	20	53	50	393	22	304	37	3.4	33	3.1
10	16	22	22	45	50	1020	22	271	25	3.4	35	2.9
11	14	19	20	36	47	291	21	103	18	3.6	35	2.7
12	13	17	21	33	44	168	27	66	14	3.7	185	2.5
13	12	16	20	47	45	123	136	54	13	3.9	159	2.3
14	12	16	27	92	46	144	100	46	10	3.8	58	3.7
15	12	17	46	64	42	180	51	38	8.8	4.3	35	11
16	12	17	34	47	41	101	37	35	8.2	28	32	7.0
17	13	17	28	134	41	73	31	32	7.5	15	23	5.2
18	13	17	31	207	47	62	41	29	6.8	7.1	20	4.2
19	12	16	32	333	53	56	98	28	6.3	4.5	25	3.7
20	12	16	28	771	45	52	63	25	5.9	3.7	18	3.6
21	12	16	25	261	41	50	44	23	5.4	3.2	13	4.2
22	12	17	23	133	39	51	34	21	5.4	2.8	10	5.3
23	12	18	21	91	38	47	30	20	5.8	2.5	9.8	3.8
24	12	18	21	75	38	44	27	20	5.4	2.4	7.9	3.3
25	15	18	54	2110	37	42	31	20	4.6	14	6.9	3.4
26	54	18	61	2250	36	48	76	18	4.5	16	6.2	3.4
27	30	17	38	323	35	45	55	16	4.3	19	5.8	3.3
28	19	17	31	178	41	41	37	16	4.3	11	5.8	3.3
29	16	17	28	124	---	38	30	16	4.3	5.6	5.3	3.2
30	14	17	96	99	---	35	26	16	3.9	4.4	4.7	3.1
31	12	---	325	84	---	33	---	15	---	4.1	4.3	---
TOTAL	462	882	1232	8034	1384	3779	1262	2547	328.4	200.0	953.4	117.0
MEAN	14.9	29.4	39.7	259	49.4	122	42.1	82.2	10.9	6.45	30.8	3.90
MAX	54	206	325	2250	90	1020	136	348	37	28	185	11
MIN	11	11	19	33	35	33	21	15	3.9	2.4	3.4	2.3
CFSM	.21	.41	.55	3.59	.68	1.69	.58	1.14	.15	.09	.43	.05
IN.	.24	.45	.63	4.14	.71	1.95	.65	1.31	.17	.10	.49	.06

CAL YR 1977 TOTAL 20239.5 MEAN 55.5 MAX 2030 MIN 7.5 CFSM .77 IN 10.43
WTR YR 1978 TOTAL 21180.8 MEAN 58.0 MAX 2250 MIN 2.3 CFSM .80 IN 10.91

02212600 FALLING CREEK NEAR JULIETTE, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—October 1967 to current year.
PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: August 1965 to current year.
EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: Maximum, 31.5°C Aug. 3, 1970; minimum, 0.0°C Jan. 9, 10, 1970, Dec. 26, 1976.
EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURES: Maximum, 29.0°C June 29; minimum, 2.0°C Jan. 16, Feb. 7.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
05...	0715	12	135	6.6	15.0	9.2
NOV						
01...	0810	11	131	6.1	14.5	9.2
DEC						
06...	0810	29	127	7.1	13.0	10.5
JAN						
17...	0815	48	94	7.4	4.0	11.7
FEB						
07...	0845	52	88	7.1	2.5	12.6
MAR						
07...	0810	50	93	7.2	7.0	11.6
APR						
04...	0815	29	112	6.5	16.0	9.1
MAY						
16...	0700	36	101	6.5	15.0	9.5
JUN						
13...	0700	13	120	6.5	23.0	8.2
JUL						
18...	0715	7.7	121	6.6	23.0	7.6
AUG						
01...	0700	4.3	128	7.7	22.0	7.8
SEP						
06...	0700	3.5	148	6.5	22.0	7.9

DATE	TUR-BID-ITY (NTU)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)
OCT												
05...	--	590	2400	55	0	12	6.1	8.0	1.8	78	0	64
NOV												
01...	3.0	400	3300	54	0	12	5.8	8.5	2.6	67	0	55
DEC												
06...	8.0	560	4300	47	0	10	5.3	8.9	2.0	66	0	54
JAN												
17...	20	480	4400	37	1	8.0	4.2	6.6	1.1	44	0	36
FEB												
07...	20	130	1300	31	0	6.6	3.6	5.6	1.0	46	0	38
MAR												
07...	19	200	580	34	0	7.1	3.9	6.1	1.1	41	0	34
APR												
04...	6.0	170	1200	45	0	10	4.9	6.8	1.1	66	0	54
MAY												
16...	11	1100	1500	45	0	9.8	5.0	5.8	1.0	55	0	45
JUN												
13...	8.0	450	970	54	0	12	5.9	7.3	1.2	--	--	66
JUL												
18...	9.0	250	1400	46	0	10	5.1	7.7	1.5	--	--	57
AUG												
01...	9.0	510	1600	52	0	12	5.3	7.4	1.4	--	--	67
SEP												
06...	--	550	880	62	0	14	6.5	8.5	1.6	--	--	74

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CYANIDE TOTAL (MG/L AS CN)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 05...	.4	4.2	.4	21	93	.01	.00	.00	--	--	--	--
NOV 01...	2.8	4.6	.3	21	94	.00	.02	--	--	16	.48	69
DEC 06...	3.0	4.8	.4	19	95	.00	.01	--	--	14	1.1	90
JAN 17...	5.3	3.9	.3	16	71	.05	.02	--	--	15	2.0	74
FEB 07...	6.1	3.3	.2	17	65	.03	.01	--	--	10	1.4	89
MAR 07...	6.0	3.1	.3	17	71	--	.02	--	--	9	1.3	60
APR 04...	4.4	3.6	.3	18	94	.01	.01	--	--	15	1.2	100
MAY 16...	2.9	1.6	.1	19	77	.05	.01	--	--	12	1.2	100
JUN 13...	1.4	1.9	.4	20	103	.08	.03	.00	.00	9	.32	100
JUL 18...	3.4	2.5	.0	8.7	95	.08	.02	--	--	19	.40	86
AUG 01...	.9	2.8	.3	22	91	.10	.01	--	--	12	.14	77
SEP 06...	2.3	3.7	.4	22	111	.04	.01	--	.00	--	--	--

DATE	ARSENIC TOTAL (UG/L AS AS)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	IRON, TOTAL RECOVERABLE (UG/L AS FE)	LEAD, TOTAL RECOVERABLE (UG/L AS PB)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	MERCURY TOTAL RECOVERABLE (UG/L AS HG)	SELENIUM, TOTAL (UG/L AS SE)	SILVER, TOTAL RECOVERABLE (UG/L AS AG)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
OCT 05...	1	0	0	10	10	700	3	160	<.5	0	--	10
JUN 13...	2	0	--	<10	5	1200	--	150	<.5	0	0	20

DATE	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLORDANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)
JUN 13...	.0	.00	.0	.00	.00	.00	.00	.00	.00	.00
SEP 06...	.0	.00	.0	.00	.00	.00	.00	.00	.00	.00

DATE	ETHION, TOTAL (UG/L)	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, TOTAL (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	TOTAL TRITHION (UG/L)	MIREX, TOTAL (UG/L)
JUN 13...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
SEP 06...	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
MAR 07...	6	10	24	62	99	99	100

02212600 FALLING CREEK NEAR JULIETTE, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	23.5	21.0	17.0	14.5	15.0	13.5	8.5	7.5	5.5	4.0	10.5	8.0
2	24.0	22.5	17.0	16.5	13.0	11.5	7.5	5.5	6.0	5.5	8.5	7.5
3	22.0	18.5	18.0	17.0	12.0	9.5	5.5	4.0	6.5	5.5	7.5	6.5
4	19.0	16.0	19.0	18.0	14.0	11.5	5.0	2.5	6.5	4.0	8.0	6.0
5	18.5	14.5	19.5	19.0	16.0	13.0	6.5	3.0	6.5	3.5	8.5	5.0
6	18.5	15.0	19.5	18.5	15.0	9.5	9.0	6.5	5.5	3.5	10.0	5.5
7	19.0	15.5	18.5	17.0	9.0	6.0	10.5	8.5	4.0	2.0	9.0	7.0
8	19.0	17.5	19.0	17.0	8.0	5.5	12.0	10.5	4.0	2.5	9.0	8.5
9	21.5	18.5	19.0	16.5	9.5	7.0	11.0	5.5	6.0	3.5	8.5	7.0
10	18.0	16.0	18.5	13.5	6.5	4.5	6.5	3.5	7.0	4.0	9.5	6.5
11	18.0	16.0	13.0	10.5	5.5	2.5	4.5	2.0	7.0	3.5	11.0	8.0
12	18.0	16.0	11.5	9.0	6.0	3.0	5.0	3.0	8.0	4.0	13.0	10.5
13	16.0	13.5	10.0	7.5	9.0	6.0	5.0	3.5	9.5	6.5	14.5	11.5
14	15.0	11.5	12.0	7.5	11.0	9.0	5.5	3.0	8.5	6.5	16.0	14.0
15	15.0	11.0	11.0	7.0	11.0	9.5	5.5	2.5	8.5	5.0	16.5	15.0
16	15.5	13.0	13.5	10.0	10.5	9.0	6.0	2.0	9.0	7.0	16.5	14.0
17	13.5	10.5	16.0	13.5	11.5	10.5	6.0	4.5	10.0	7.5	13.5	11.0
18	14.0	10.0	14.0	11.0	12.0	10.0	6.0	5.5	9.5	8.5	12.5	8.5
19	15.5	12.0	12.5	10.5	10.0	7.5	6.5	6.0	9.5	7.0	14.0	8.5
20	15.0	11.0	14.0	11.5	12.0	9.5	6.5	6.0	9.0	6.0	16.0	10.5
21	15.0	11.5	15.5	13.0	10.5	7.0	6.0	5.0	7.5	5.0	17.0	12.5
22	15.0	11.0	16.0	14.5	7.5	5.5	6.0	5.0	6.5	3.5	18.0	13.5
23	14.5	11.5	17.0	15.5	7.0	4.5	6.0	4.5	6.0	3.5	18.0	12.5
24	16.0	13.0	16.5	15.5	9.5	7.0	6.5	5.0	8.5	4.5	18.0	13.5
25	17.5	16.0	17.0	15.0	10.5	9.0	8.5	6.5	10.0	4.5	20.0	16.0
26	18.0	17.0	14.5	8.5	9.0	5.0	9.5	7.5	10.5	7.5	16.5	14.0
27	18.0	16.5	9.5	6.5	5.5	3.5	7.0	5.0	9.5	6.0	15.0	12.0
28	18.5	17.0	13.0	9.5	6.5	2.5	5.0	4.0	8.5	8.0	16.0	10.0
29	18.5	16.5	14.0	11.5	4.5	1.5	4.5	3.0	---	---	17.5	11.0
30	18.0	16.5	14.5	13.5	6.0	4.5	4.5	2.5	---	---	18.5	13.0
31	17.0	15.5	---	---	7.5	6.0	5.0	4.0	---	---	19.5	13.0
MONTH	24.0	10.0	19.5	6.5	16.0	1.5	12.0	2.0	10.5	2.0	20.0	5.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	20.0	14.5	17.5	15.5	23.0	19.5	27.0	23.5	26.0	22.0	25.5	23.0
2	20.5	15.0	17.5	16.5	23.5	20.0	28.0	24.5	26.0	22.5	26.0	23.0
3	21.0	15.5	17.5	15.5	23.0	21.5	27.5	24.0	25.0	23.5	25.0	23.5
4	21.0	16.0	17.5	15.0	24.0	21.5	26.5	23.0	24.0	23.0	25.5	22.5
5	22.0	16.0	18.0	16.0	23.5	21.0	26.5	23.5	24.5	23.0	24.5	21.5
6	20.5	17.0	19.0	16.5	24.5	21.5	25.5	24.0	25.5	23.0	24.5	22.0
7	21.5	16.0	19.0	18.0	25.0	22.0	26.5	23.0	25.0	24.0	25.0	21.0
8	21.5	16.0	19.5	18.5	23.5	22.5	26.5	22.0	25.0	22.5	25.5	21.0
9	21.0	16.5	19.5	18.5	24.5	23.0	27.5	23.5	25.5	22.5	25.5	21.0
10	22.0	18.0	19.5	17.5	25.5	22.5	28.0	24.0	23.0	22.5	25.5	21.5
11	20.5	18.5	18.5	16.5	25.0	23.5	28.0	24.5	24.0	22.0	24.5	21.0
12	20.0	17.5	18.5	17.0	24.5	22.5	25.5	24.0	24.0	22.0	24.0	20.0
13	19.0	17.0	20.0	18.0	25.5	23.0	26.5	23.0	24.5	23.0	25.0	20.5
14	18.0	15.5	19.5	17.0	23.5	20.5	26.0	24.0	25.5	23.5	25.0	21.5
15	19.5	15.5	18.0	16.0	23.5	21.0	25.5	24.0	26.0	23.5	23.0	22.0
16	19.5	15.5	18.0	14.5	23.5	20.5	25.5	23.0	26.0	23.0	23.0	21.5
17	20.0	17.5	17.0	15.0	23.0	20.0	26.0	23.0	27.0	22.0	24.0	22.0
18	19.0	17.5	18.0	16.0	23.0	20.0	26.5	23.0	27.0	24.0	23.5	22.0
19	19.0	17.0	19.0	17.0	23.0	20.0	26.5	23.0	26.5	23.5	24.0	21.5
20	17.5	15.5	19.5	16.5	23.5	20.0	26.5	23.0	26.5	23.5	24.0	22.0
21	16.0	13.0	19.5	17.5	23.0	20.0	27.0	23.0	26.5	24.0	24.5	22.5
22	16.0	11.5	20.5	17.5	24.0	21.0	26.5	23.0	25.5	23.0	25.0	22.0
23	15.5	12.5	20.0	18.5	25.0	21.5	27.5	23.5	24.0	22.5	25.0	22.5
24	17.5	14.0	21.0	19.0	25.0	21.5	27.5	23.5	24.0	21.5	23.5	22.0
25	18.0	15.5	21.5	18.5	24.5	21.5	27.5	23.0	23.5	21.5	23.5	21.5
26	16.0	14.0	21.5	19.0	25.5	23.0	26.5	24.5	25.0	22.5	22.5	20.5
27	15.5	12.5	22.5	19.5	26.5	23.0	26.5	24.0	24.5	22.5	21.5	18.5
28	16.5	12.0	22.5	20.5	28.0	23.5	25.5	23.5	25.0	23.0	22.0	17.0
29	17.0	12.5	22.5	20.0	29.0	24.5	25.5	23.0	25.0	23.0	22.0	19.0
30	17.0	14.5	23.0	20.0	28.0	24.5	27.5	23.5	25.5	23.0	20.0	19.0
31	---	---	23.5	20.0	---	---	25.0	23.0	26.0	23.5	---	---
MONTH	22.0	11.5	23.5	14.5	29.0	19.5	28.0	22.0	27.0	21.5	26.0	17.0

02212950 OCMULGEE RIVER ABOVE MACON, GA.

LOCATION.--Lat 32°52'11", long 83°39'15", Bibb County, Hydrologic Unit 03070103, at Macon water works intake, 1.2 mi (1.9 km) north of Macon city limits, and at mile 201 (323 km).

DRAINAGE AREA.--2,240 mi^2 (5,800 km^2), approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
04...	1030	770	7.2	19.3	21.8	8.2
NOV						
01...	1315	2630	7.2	21.5	17.5	9.1
29...	1530	2500	7.1	22.0	14.0	9.9
JAN						
04...	1330	2750	7.0	11.8	6.0	12.7
FEB						
07...	1200	4020	6.8	.0	3.5	13.2
MAR						
15...	0930	5500	7.4	16.5	12.0	10.6
APR						
12...	0900	1830	6.9	17.0	19.0	8.8
MAY						
03...	0830	8980	7.0	16.0	17.5	8.7
JUN						
05...	1400	945	7.1	30.0	27.0	7.8
JUL						
05...	1100	725	7.2	32.0	29.0	7.0
AUG						
01...	1045	730	7.3	27.5	28.0	7.4
SEP						
06...	0845	765	7.3	29.5	27.5	7.7

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)
OCT						
04...	89	6	--	.4	930	40
NOV						
01...	71	35	--	.9	2300	900
29...	67	20	--	.6	230	40
JAN						
04...	73	15	--	.8	750	230
FEB						
07...	49	71	--	1.1	430	30
MAR						
15...	62	41	--	1.2	23000	750
APR						
12...	64	11	--	1.2	3900	210
MAY						
03...	63	69	--	--	15000	7500
JUN						
05...	66	12	--	1.0	2300	30
JUL						
05...	85	11	--	.8	--	<30
AUG						
01...	86	17	11	.3	2300	230
SEP						
06...	76	7	10	.4	2300	40

02212950 OCMULGEE RIVER ABOVE MACON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
04...	--	2	.73	.04	--	.05	4.0
NOV							
01...	--	22	.55	<.02	--	.13	4.0
29...	--	15	.54	<.02	--	.07	5.0
JAN							
04...	--	5	.74	.05	--	.13	3.0
FEB							
07...	--	24	.41	.14	--	.12	3.0
MAR							
15...	--	13	.57	.10	--	.16	<1.0
APR							
12...	--	14	.40	.04	--	.06	1.5
MAY							
03...	--	53	.51	.05	--	.21	13
JUN							
05...	--	9	.57	<.02	--	.06	3.0
JUL							
05...	--	5	.47	<.02	--	.08	2.5
AUG							
01...	23	19	.49	<.02	.22	.07	1.0
SEP							
06...	19	<1	.41	.03	<.02	.05	4.0

02213000 OCMULGEE RIVER AT MACON, GA.

LOCATION.--Lat 32°50'19", long 83°37'14", Bibb County, Hydrologic Unit 03070103, at downstream end of center pier of Fifth Street Bridge in Macon, 1.5 mi (2.4 km) upstream from Walnut Creek, and at mile 198.0 (318.6 km).

DRAINAGE AREA.--2,240 mi² (5,800 km²), approximately.

PERIOD OF RECORD.--January 1893 to December 1911, January 1912 to December 1913 (gage heights and discharge measurements only), October 1928 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage height records collected at same site since 1895 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area. WSP 1504: 1893-1903, 1905-10, 1932, 1937, 1942(M).

GAGE.--Water-stage recorder. Datum of gage is 269.80 ft (82.24 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 9, 1905, nonrecording gage at sites within 1.5 mi (2.4 km) downstream at about same datum. Oct. 9, 1905 to Dec. 31, 1913, nonrecording gage at present site and datum. Jan. 10, 1929 to June 25, 1934, water-stage recorder at site 500 ft (152 m) downstream at same datum. June 25, 1934 to June 25, 1973, water-stage recorder at present site and datum, and June 26, 1973 to Oct. 13, 1974, nonrecording gage at present site and datum.

REMARKS.--Records good. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000.) Records of chemical analyses for the water years 1968-73 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--68 years (1893-1911, 1928-78), 2,738 ft³/s (77.5 m³/s), 16.60 in/yr (421.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,500 ft³/s (2,360 m³/s) Nov. 29, 1948, gage height, 28.0 ft (8.53 m); maximum gage height, 29.45 ft (8.976 m), from floodmark, Mar. 4, 1971; minimum daily discharge, 128 ft³/s (3.62 m³/s) Oct. 24, 1954; minimum gage height observed, -1.0 ft (-0.30 m) Oct. 5, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 19, 1925, reached a stage of 26.0 ft (7.92 m), from floodmarks at Central of Georgia Railroad bridge, 500 ft (152 m) downstream, discharge 72,500 ft³/s (2,050 m³/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 14,000 ft³/s (396 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Jan. 27	0600	*37000	1050	24.30	7.407	May 11	0200	16800	476	19.29	5.880

Minimum daily discharge, 696 ft³/s (19.7 m³/s) July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	825	2240	1770	3890	4770	2340	1680	3550	1340	755	761	770
2	1790	2760	1820	2610	5080	3090	1330	8130	1610	737	703	764
3	845	3120	2390	2790	5000	3350	1290	8580	1010	798	818	769
4	772	3490	1070	2630	4690	3390	1710	7600	1800	774	1310	801
5	777	4800	976	2190	4500	1780	1650	6060	978	720	2650	756
6	866	7040	2320	1560	4300	1590	1650	4910	1550	704	3620	753
7	1020	9190	2260	1560	4030	1980	1610	4620	903	698	3900	745
8	758	9330	2390	2530	3120	3650	1500	4940	1250	696	2920	916
9	899	7820	1020	2350	3000	4640	1290	7500	2810	701	2500	735
10	895	5840	933	2930	2600	9860	1190	13900	2480	824	4370	726
11	1980	4320	917	3060	2930	7910	1560	13800	1350	771	4950	742
12	2730	3880	896	3230	2630	6020	1830	7660	930	802	4770	725
13	2930	3000	916	3140	2460	5300	2970	6030	1290	772	4510	715
14	2290	2530	1190	2980	2850	4910	3660	4940	1310	749	3490	831
15	1880	2630	1690	3200	2760	5320	2930	4430	1270	759	2320	925
16	1930	2470	1570	2930	2950	4660	1470	2050	845	809	1560	808
17	1240	2600	1020	3040	3010	4300	1320	1440	809	835	1390	776
18	1170	1830	1010	3850	2480	3340	2060	1390	802	787	1760	765
19	1150	1390	1030	5520	1640	2540	4060	1750	784	772	2030	734
20	1360	951	1070	8560	1580	2370	3700	1570	1000	754	937	724
21	1250	953	1540	6800	2250	3070	2990	1200	928	772	878	718
22	774	2150	1720	6390	2190	3230	2670	1200	781	733	989	717
23	769	2140	1260	4860	2240	1770	1310	2210	756	728	837	722
24	754	2200	1330	4190	2030	2970	1250	1140	848	721	1130	757
25	846	1930	2120	16600	1420	2910	2210	1480	744	767	1080	749
26	2310	1320	2630	32900	1380	2800	2560	1640	715	986	815	749
27	3530	1140	2090	35100	1410	1550	2770	1670	1220	896	806	771
28	3600	917	2290	24000	2120	2670	1650	1020	900	1220	811	716
29	3520	2070	1840	9860	---	2810	1440	998	1090	859	842	707
30	3360	2100	1880	9220	---	2740	1170	1530	806	787	813	697
31	2300	---	4580	5360	---	2670	---	1760	---	851	790	---
TOTAL	51120	98151	51538	219830	81420	111530	60480	130698	34909	24537	61060	22783
MEAN	1649	3272	1663	7091	2908	3598	2016	4216	1164	792	1970	759
MAX	3600	9330	4580	35100	5080	9860	4060	13900	2810	1220	4950	925
MIN	754	917	896	1560	1380	1550	1170	998	715	696	703	697

CAL YR 1977 TOTAL 909580 MEAN 2492 MAX 23700 MIN 690 MEAN+ 2485 CFSM+ 1.11 IN+ 15.07
WTR YR 1978 TOTAL 948056 MEAN 2597 MAX 35100 MIN 696 MEAN+ 2588 CFSM+ 1.16 IN+ 15.75

+ Adjusted for change in contents in Lloyd Shoals Reservoir.

02213050 WALNUT CREEK NEAR GRAY, GA.

LOCATION.--Lat 32°58'20", long 83°37'08", Jones County, Hydrologic Unit 03070103, on downstream side of right bank pier of abandoned bridge, 500 ft (152 m) downstream from bridge on State Highway 18, 1.4 mi (2.3 km) upstream from Bonner Creek, and 5.5 mi (8.8 km) southeast of Gray.

DRAINAGE AREA.--29 mi^2 (75 km^2), approximately.

PERIOD OF RECORD.--October 1961 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 390 ft (119 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--17 years, 34.7 ft^3/s (0.98 m^3/s), 16.25 in/yr (412.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft^3/s (439 m^3/s) Dec. 26, 1964, gage height, 23.8 ft (7.25 m), from floodmark, from rating curve extended above 5,000 ft^3/s (142 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 0.48 ft^3/s (0.014 m^3/s) Oct. 4, 5, 6, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Zero flow was observed during June, July, and August 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 25	2315	*2960	83.8	9.02	2.750

Minimum daily discharge, 1.6 ft^3/s (0.050 m^3/s) Sept. 12, 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.5	4.7	9.6	31	27	24	15	230	7.1	3.7	4.3	2.2
2	2.5	5.0	8.4	20	71	17	15	73	6.7	3.6	3.0	2.1
3	2.4	5.6	7.5	17	47	55	14	47	8.3	4.0	11	2.2
4	2.1	26	7.5	14	36	35	14	100	10	4.6	19	2.2
5	2.0	69	14	13	31	25	13	52	7.5	3.8	8.0	2.2
6	1.9	18	19	13	27	23	13	33	7.5	3.5	5.9	2.1
7	1.9	11	9.8	13	23	26	13	38	8.9	3.5	11	1.9
8	2.0	9.0	8.5	15	22	63	12	56	12	3.1	50	1.8
9	12	8.6	9.3	20	23	192	12	75	12	2.8	9.2	2.1
10	6.4	7.8	9.1	13	21	187	11	56	9.8	6.1	8.7	1.8
11	4.2	7.0	8.1	13	18	76	12	35	7.9	3.4	14	1.7
12	3.4	6.6	8.1	12	18	61	16	28	7.2	3.1	39	1.6
13	2.8	6.5	8.2	20	20	49	155	24	6.9	3.4	23	1.6
14	2.7	6.5	11	25	18	70	49	19	5.6	3.3	9.6	2.9
15	2.7	6.7	12	16	17	58	29	16	5.3	3.9	9.0	6.8
16	3.1	7.0	9.4	14	16	43	23	16	5.1	4.8	13	3.7
17	3.0	9.6	9.0	56	16	34	18	15	4.8	4.6	7.6	2.8
18	3.0	9.5	10	46	19	30	28	14	4.7	2.9	6.0	2.4
19	3.0	7.0	9.2	188	17	27	50	13	4.6	2.4	6.4	2.3
20	2.7	6.7	8.5	305	16	25	28	11	4.4	2.2	4.9	2.1
21	2.7	7.0	8.4	69	15	24	21	10	6.4	2.0	4.4	1.9
22	2.8	7.3	8.0	45	14	24	18	9.5	34	1.9	4.2	1.9
23	2.8	8.8	7.7	34	14	21	17	9.0	8.5	1.8	4.0	2.9
24	2.9	8.5	9.1	30	14	20	16	11	6.5	1.9	3.5	3.9
25	21	8.5	32	1680	14	19	15	11	5.5	5.6	3.3	3.5
26	42	7.7	16	684	13	20	15	8.9	5.0	21	3.0	2.8
27	8.3	7.2	11	99	13	18	14	8.2	4.7	6.9	3.4	2.5
28	5.9	7.5	9.9	59	22	17	13	8.0	4.5	5.5	3.5	2.4
29	5.3	7.5	9.6	43	---	17	11	8.6	4.2	4.3	2.9	2.3
30	4.9	8.0	52	35	---	17	11	8.5	3.7	3.6	2.5	2.5
31	4.9	---	77	30	---	16	---	7.8	---	4.4	2.4	---
TOTAL	169.8	315.8	436.9	3672	622	1333	691	1051.5	229.3	131.6	299.7	75.1
MEAN	5.48	10.5	14.1	118	22.2	43.0	23.0	33.9	7.64	4.25	9.67	2.50
MAX	42	69	77	1680	71	192	155	230	34	21	50	6.8
MIN	1.9	4.7	7.5	12	13	16	11	7.8	3.7	1.8	2.4	1.6
CFSM	.19	.36	.49	4.07	.77	1.48	.79	1.17	.26	.15	.33	.09
IN.	.22	.41	.56	4.71	.80	1.71	.89	1.35	.29	.17	.38	.10

CAL YR 1977 TOTAL 8566.1 MEAN 23.5 MAX 963 MIN 1.9 CFSM .81 IN 10.99
WTR YR 1978 TOTAL 9027.7 MEAN 24.7 MAX 1680 MIN 1.6 CFSM .85 IN 11.58

02213500 TOBESOFKEE CREEK NEAR MACON, GA.

LOCATION.--Lat 32°48'32", long 83°45'30", Bibb County, Hydrologic Unit 03070103, on right bank at downstream end of pier of bridge on U.S. Highway 80, 8 mi (13 km) west of Macon, and 14 mi (23 km) upstream from mouth.

DRAINAGE AREA.--182 mi^2 (471 km^2).

PERIOD OF RECORD.--March 1937 to current year.

REVISED RECORDS.--WSP 1204: 1942.

GAGE.--Water-stage recorder. Datum of gage is 309.98 ft (94.48 m) National Geodetic Vertical Datum of 1929. Prior to Aug. 28, 1942, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated to some extent since November 1967 by Lake Tobesofkee, about 1 mi (1.6 km) upstream. Records of chemical analyses for the water years 1969-70 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--41 years, 199 ft^3/s (5.64 m^3/s), 14.85 in/yr (377.2 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,830 ft^3/s (278 m^3/s) Mar. 21, 1944, gage height, 23.2 ft (7.07 m), from rating curve extended above 6,300 ft^3/s (178 m^3/s); minimum, 2.3 ft^3/s (0.065 m^3/s) Oct. 10, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,690 ft^3/s (218 m^3/s) Jan. 25, gage height, 20.68 ft (6.303 m); minimum daily, 20 ft^3/s (0.57 m^3/s) Sept. 17-21, 29, 30.

DISCHARGE. IN CUBIC FEET PER SECOND. WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	52	65	287	235	240	139	373	79	39	38	25
2	39	51	71	217	220	198	135	348	78	37	41	24
3	39	49	72	159	284	263	130	226	95	37	44	24
4	37	162	72	112	308	308	128	440	125	37	48	23
5	35	1310	81	108	259	214	123	253	93	36	47	23
6	34	1260	145	126	238	172	125	186	90	36	177	23
7	33	482	126	133	232	180	123	178	90	35	324	23
8	31	249	110	169	226	514	116	359	90	34	77	23
9	32	167	97	172	162	915	112	591	119	33	1020	22
10	36	165	91	121	80	1690	114	387	112	33	561	22
11	35	114	86	121	127	821	132	214	92	33	235	22
12	36	64	79	110	161	506	147	178	83	33	174	22
13	39	63	71	133	177	401	829	188	81	32	154	21
14	39	65	66	187	180	500	355	157	79	33	152	21
15	37	62	68	145	148	558	186	130	74	34	142	21
16	37	58	71	121	147	348	152	121	73	34	128	21
17	37	56	66	243	152	262	152	108	68	33	81	20
18	37	63	68	145	168	214	272	104	64	33	74	20
19	35	64	74	814	171	208	423	104	59	33	44	20
20	35	63	77	1180	153	205	217	95	58	32	35	20
21	35	62	82	462	152	202	178	83	54	32	32	20
22	35	62	82	280	127	202	162	83	52	31	31	21
23	35	61	82	232	118	188	135	84	50	31	31	21
24	35	64	81	223	123	167	135	83	48	31	29	21
25	36	68	226	4760	123	157	194	86	47	30	28	21
26	37	82	193	4560	128	170	200	84	45	31	28	21
27	42	81	133	1540	120	164	106	83	44	31	28	21
28	46	70	123	713	151	128	90	81	41	31	27	21
29	47	66	110	562	---	121	88	79	39	31	27	20
30	50	65	292	382	---	145	92	79	46	31	26	20
31	52	---	626	280	---	142	---	79	---	36	26	---
TOTAL	1172	5300	3686	18797	4870	10503	5490	5644	2168	1033	3909	647
MEAN	37.8	177	119	606	174	339	183	182	72.3	33.3	126	21.6
MAX	52	1310	626	4760	308	1690	829	591	125	39	1020	25
MIN	31	49	65	108	80	121	88	79	39	30	26	20
CFSM	.21	.97	.65	3.33	.96	1.86	1.01	1.00	.40	.18	.69	.12
IN.	.24	1.08	.75	3.84	1.00	2.15	1.12	1.15	.44	.21	.80	.13

CAL YR 1977 TOTAL 67498 MEAN 185 MAX 5120 MIN 28 CFSM 1.02 IN 13.80
WTR YR 1978 TOTAL 63219 MEAN 173 MAX 4760 MIN 20 CFSM .95 IN 12.92

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.

LOCATION.--Lat 32°40'17", long 83°36'11", Bibb-Twiggs County line, Hydrologic Unit 03070103, on right bank 0.8 mi (1.3 km) upstream from Echeconnee Creek, 4 mi (6.5 km) northeast of Warner Robins, and 5.7 mi (9.2 km) downstream from Tobesofkee Creek.
DRAINAGE AREA.--2,690 mi^2 (6,970 km^2), approximately.
PERIOD OF RECORD.--May 1970 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1970 to current year.
pH: October 1971 to current year.
WATER TEMPERATURES: February 1970 to current year.
DISSOLVED OXYGEN: May 1970 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000.)
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 179 micromhos Oct. 21, 1970; minimum recorded, 25 micromhos Jan. 7, 1974.
pH: Maximum recorded, 7.8 units Oct. 1, 1971; minimum recorded, 5.2 units Jan. 14, 1972.
WATER TEMPERATURE: Maximum, 33.5°C July 8, 10, 1977; minimum, 1.0°C Jan. 19, 20, 1977.
DISSOLVED OXYGEN: Maximum recorded, 16.5 mg/L Mar. 12, 1970; minimum recorded, 0.0 mg/L June 8, 9, 1971.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 152 micromhos Sept. 27; minimum, 44 micromhos Jan. 29.
pH: Maximum, 6.9 units Oct. 19-21, 23, 24, Dec. 20, Jan. 11, 6.0 units Aug. 12.
WATER TEMPERATURE: Maximum, 33.0°C July 23; minimum, 2.5°C Jan. 16.
DISSOLVED OXYGEN: Maximum recorded, 13.1 mg/L Jan. 4, 16; minimum, 1.6 mg/L July 1.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
04...	0820	1020	7.1	11.5	22.5	5.6
NOV						
01...	1500	2460	7.0	21.0	17.5	7.3
29...	1430	1530	7.0	22.0	13.5	8.6
JAN						
04...	1430	3340	7.1	13.5	6.5	12.4
FEB						
07...	1300	--	6.7	.5	4.0	12.6
MAR						
15...	0830	--	7.4	15.0	14.0	9.4
APR						
12...	0815	1560	7.0	13.0	21.0	6.2
MAY						
03...	0730	--	6.8	16.0	18.0	7.6
JUN						
05...	1440	1530	7.1	30.0	26.5	6.4
JUL						
05...	1145	960	6.8	31.0	30.0	5.4
AUG						
01...	1415	1080	7.0	32.0	28.5	4.8
SEP						
06...	0730	880	7.0	22.5	27.5	6.7

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)
OCT						
04...	116	15	12	15	1.4	4100
NOV						
01...	93	80	33	20	1.5	5700
29...	103	80	20	19	1.2	4300
JAN						
04...	82	35	20	14	1.6	4300
FEB						
07...	58	125	74	17	1.2	150
MAR						
15...	71	120	34	13	1.3	6800
APR						
12...	82	40	12	14	2.1	23000
MAY						
03...	71	100	62	22	--	9300
JUN						
05...	83	80	22	23	1.2	9300
JUL						
05...	--	15	25	16	5.5	39000
AUG						
01...	111	80	50	19	1.5	43000
SEP						
06...	115	45	16	13	1.1	930

DATE	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
04...	--	17	.73	.23	.74	.19	5.0
NOV							
01...	--	43	.55	.06	.45	.19	5.0
29...	--	15	.55	.26	.57	.18	6.0
JAN							
04...	--	16	.69	.13	.40	.17	4.0
FEB							
07...	--	20	--	--	.19	.13	3.0
MAR							
15...	--	30	.53	.08	.46	.17	<1.0
APR							
12...	--	11	.35	.27	.62	.22	3.5
MAY							
03...	--	75	.51	.09	.38	.30	--
JUN							
05...	--	25	.56	.15	.30	.15	5.0
JUL							
05...	--	46	.70	1.0	2.1	.43	6.0
AUG							
01...	28	50	.61	.11	.56	.22	7.0
SEP							
06...	27	<1	.64	.24	.49	.21	7.0

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	123	118	96	80	96	84	90	82	53	50	84	78
2	123	90	98	76	99	86	81	76	54	53	86	70
3	111	91	78	71	106	81	80	66	56	54	80	70
4	128	111	82	79	107	83	79	67	56	55	80	76
5	128	120	89	81	119	105	85	80	56	55	82	76
6	130	118	89	77	120	82	99	86	57	55	86	82
7	126	108	76	67	91	84	101	89	59	57	88	82
8	119	105	68	67	96	80	102	90	61	59	86	72
9	129	119	69	66	101	83	---	---	68	61	80	74
10	124	112	68	66	108	100	---	---	74	66	74	61
11	114	93	69	66	109	103	86	82	74	60	64	52
12	103	90	70	69	110	105	89	86	78	65	62	55
13	94	90	71	69	114	107	90	87	80	69	67	63
14	96	87	77	66	115	102	93	83	79	63	70	67
15	103	89	79	65	110	93	92	80	75	66	70	69
16	98	84	83	68	100	95	85	82	75	63	70	68
17	95	88	86	68	120	98	89	80	74	64	70	69
18	99	96	89	74	119	113	87	79	81	74	71	68
19	109	96	91	87	113	107	83	74	86	80	74	69
20	108	93	104	91	129	105	76	72	88	85	76	72
21	109	93	103	97	120	97	72	63	88	75	78	67
22	120	99	105	76	107	101	68	63	82	78	79	69
23	130	116	94	79	108	92	72	69	88	76	84	73
24	129	124	95	78	94	81	74	72	86	80	89	67
25	126	117	91	79	92	76	74	61	92	80	79	68
26	120	91	91	82	90	72	62	51	94	88	80	68
27	89	81	103	92	81	71	53	47	96	90	86	71
28	90	83	105	95	77	74	48	45	94	82	91	70
29	90	88	111	78	84	80	47	44	---	---	79	68
30	88	82	94	79	95	89	49	47	---	---	82	69
31	89	80	---	---	94	78	50	47	---	---	84	69
MONTH	130	80	111	65	129	71	102	44	96	50	91	52

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	85	75	107	76	90	78	135	106	130	120	---	---
2	100	84	81	70	92	79	132	119	131	121	---	---
3	97	94	75	70	93	76	132	121	132	126	---	---
4	99	88	71	68	95	76	128	117	128	100	---	---
5	93	87	73	70	92	76	118	115	107	87	---	---
6	92	84	73	70	105	86	142	115	87	71	116	110
7	94	88	73	71	92	85	141	131	95	86	120	109
8	---	---	73	71	---	---	144	130	93	91	121	106
9	---	---	72	70	---	---	134	123	96	89	125	102
10	---	---	71	62	---	---	126	115	98	78	127	115
11	---	---	62	59	---	---	118	110	90	75	126	120
12	91	82	61	59	---	---	123	115	88	71	130	115
13	84	68	62	59	109	96	127	118	---	---	125	116
14	72	69	63	62	103	95	131	122	85	70	132	120
15	70	67	64	63	106	95	134	124	81	74	130	115
16	81	70	75	64	110	93	129	121	92	81	127	116
17	89	81	84	76	116	109	124	115	94	86	128	123
18	89	75	90	83	120	108	128	115	102	86	128	123
19	86	73	90	78	122	113	135	124	88	78	131	126
20	83	78	89	80	132	120	142	129	102	82	134	129
21	83	78	95	84	123	109	136	130	116	103	133	109
22	87	81	95	92	119	110	138	128	116	109	130	112
23	105	88	97	67	124	115	129	121	126	109	141	112
24	107	103	99	72	120	111	127	118	128	120	150	110
25	104	82	103	90	113	102	134	123	118	102	140	110
26	87	77	92	80	119	112	128	117	117	106	150	103
27	85	76	91	79	113	100	123	114	123	116	152	109
28	96	83	94	76	106	93	132	113	121	114	150	107
29	104	94	---	---	110	101	115	102	133	117	150	105
30	106	95	---	---	104	95	125	116	120	115	150	111
31	---	---	---	---	---	---	130	123	115	110	---	---
MONTH	107	67	107	59	132	76	144	102	133	70	152	102

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.—Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5.4	4.4	8.2	7.5	9.2	8.2	11.5	11.2	12.3	12.1	11.2	10.2
2	6.7	4.9	8.0	7.3	9.3	8.4	11.4	11.3	12.2	12.1	11.6	10.4
3	6.8	6.1	8.0	7.9	9.9	8.6	12.3	11.3	12.2	12.1	11.7	11.2
4	6.2	5.1	7.9	7.4	9.9	8.7	13.1	12.2	12.3	12.1	11.9	11.5
5	6.5	5.7	7.2	7.1	8.6	7.8	12.5	12.2	12.3	12.2	11.8	11.4
6	6.8	5.5	7.0	6.6	9.3	7.7	12.2	11.4	12.3	12.1	11.4	11.2
7	6.8	6.1	6.6	6.4	10.4	8.8	11.3	10.7	12.8	12.3	11.2	10.7
8	7.0	6.3	6.7	6.4	11.2	10.3	11.0	10.3	12.9	12.8	11.4	10.6
9	6.4	6.1	6.6	6.6	11.1	9.9	---	---	12.8	12.2	11.2	10.8
10	6.9	6.1	6.8	6.5	10.4	9.5	---	---	12.6	11.8	11.2	11.0
11	8.0	6.6	7.6	6.8	11.0	10.4	12.9	12.8	12.3	11.7	11.1	10.8
12	7.9	7.2	8.4	7.6	11.1	11.0	12.9	12.8	12.2	11.7	10.9	10.6
13	8.4	8.0	8.8	8.4	11.1	10.5	12.9	12.4	12.1	11.5	10.7	10.5
14	8.7	8.3	9.1	8.4	10.5	9.7	12.4	11.9	11.7	11.1	10.6	9.6
15	8.8	8.3	9.2	8.7	10.0	9.2	13.0	12.4	11.9	11.3	9.7	9.4
16	8.8	8.1	9.1	8.6	9.8	9.0	13.1	12.9	11.9	11.5	9.4	9.2
17	8.7	8.5	8.9	8.2	9.6	8.6	13.0	12.5	11.8	11.5	10.3	9.5
18	8.6	8.4	8.6	7.7	9.0	8.8	12.5	12.0	11.6	11.1	10.7	10.3
19	8.1	7.0	8.5	7.9	9.5	9.0	12.2	11.9	11.1	10.5	10.6	10.1
20	8.3	7.0	8.5	7.6	9.6	9.1	11.9	11.5	10.7	10.6	10.2	9.9
21	8.3	6.7	8.2	8.0	10.2	8.7	12.0	11.5	11.6	10.6	10.1	9.2
22	8.0	5.5	9.4	7.9	10.8	9.9	12.4	12.0	12.0	11.3	9.4	8.8
23	7.1	6.6	9.0	8.0	10.8	10.2	12.5	12.4	12.2	11.4	9.0	8.3
24	7.3	6.9	8.8	8.1	11.1	10.6	12.4	12.2	12.1	11.4	9.0	7.4
25	7.3	6.6	8.7	8.2	11.0	10.1	12.2	10.9	11.7	10.4	8.9	8.2
26	7.0	5.1	8.8	8.1	11.1	10.3	10.8	9.8	10.5	10.1	8.7	7.9
27	8.0	7.2	9.4	8.6	11.7	11.0	11.4	10.9	10.3	10.1	8.4	8.0
28	8.2	7.7	9.6	9.1	12.2	11.7	11.8	11.4	10.8	10.1	9.3	7.7
29	8.3	8.1	10.0	8.5	12.1	11.8	12.0	11.8	---	---	9.1	7.4
30	8.1	7.8	10.0	8.9	11.8	11.3	12.4	12.0	---	---	8.8	8.2
31	8.1	7.8	---	---	11.8	11.2	12.4	12.3	---	---	8.7	8.0
MONTH	8.8	4.4	10.0	6.4	12.2	7.7	13.1	9.8	12.9	10.1	11.9	7.4

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.6	7.7	7.9	6.4	6.3	6.0	5.5	1.6	6.3	4.4	---	---
2	7.8	6.6	7.8	7.1	6.2	5.7	5.6	4.1	5.5	5.1	---	---
3	6.9	6.8	7.7	7.4	6.2	5.3	5.9	4.9	5.4	4.8	---	---
4	7.1	6.4	7.9	7.7	6.9	5.1	5.5	4.4	5.3	4.1	---	---
5	7.4	7.1	8.0	7.8	7.0	6.0	5.4	5.2	5.2	4.3	---	---
6	7.7	7.1	8.1	7.5	6.0	4.9	5.6	5.1	---	---	6.7	5.8
7	7.7	6.4	7.8	6.9	5.9	4.8	5.4	5.1	6.7	6.5	6.4	5.3
8	---	---	7.2	6.6	---	---	5.5	4.7	6.6	6.3	6.5	5.7
9	---	---	6.9	6.3	---	---	5.5	5.0	6.2	5.7	6.8	5.5
10	---	---	7.1	6.8	---	---	5.7	5.3	6.7	5.7	6.3	5.9
11	---	---	6.8	6.8	---	---	5.7	4.8	6.6	5.8	7.0	6.2
12	6.8	5.2	6.9	6.8	---	---	5.3	4.5	---	---	7.3	5.4
13	7.0	6.4	6.9	6.7	6.7	6.1	5.6	4.7	---	---	6.9	6.0
14	7.8	6.8	7.0	6.7	6.6	6.3	5.2	3.8	6.7	6.5	6.6	5.3
15	8.2	7.7	7.3	6.9	6.6	5.9	4.9	4.0	7.0	6.5	6.6	3.2
16	8.1	7.0	7.3	6.7	7.4	6.2	5.1	4.5	6.9	5.9	6.7	5.9
17	7.0	6.5	6.7	5.9	6.5	5.5	5.7	5.2	6.7	5.8	7.0	6.1
18	7.6	6.3	6.3	5.8	6.0	5.7	5.6	4.7	6.7	5.7	7.0	6.5
19	8.3	5.7	6.4	5.7	7.2	5.8	5.2	4.2	7.7	6.8	7.4	6.1
20	8.3	8.1	6.3	5.8	5.8	5.0	4.7	4.3	7.7	6.2	7.0	6.0
21	8.6	8.1	6.3	5.4	6.0	5.6	5.4	4.7	6.2	5.8	6.9	6.0
22	8.8	8.0	5.7	5.5	6.0	5.5	6.2	5.2	6.3	5.7	6.6	5.7
23	8.6	7.5	6.9	5.5	6.5	5.6	6.5	5.5	6.7	5.8	6.8	5.7
24	7.5	7.2	6.8	5.5	8.2	6.3	6.6	5.8	6.4	5.8	6.7	6.1
25	8.4	7.0	5.8	5.4	8.0	5.7	6.3	5.4	6.8	6.2	7.1	6.3
26	8.3	7.4	5.9	5.5	6.5	5.5	5.9	4.6	6.5	2.3	7.1	6.2
27	7.7	6.9	6.1	5.3	7.4	5.5	5.8	5.1	6.1	5.5	7.0	5.9
28	7.4	5.9	6.5	5.4	7.4	6.0	5.5	4.6	6.6	6.3	6.1	5.3
29	6.7	4.2	---	---	7.2	5.2	5.7	4.9	7.1	6.1	6.0	5.2
30	7.0	6.6	---	---	7.0	4.1	6.2	5.3	6.8	5.7	6.1	5.1
31	---	---	---	---	---	---	6.4	6.1	6.3	6.0	---	---
MONTH	8.8	4.2	8.1	5.3	8.2	4.1	6.6	1.6	7.7	2.3	7.4	3.2

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.—Continued

PH (UNITS), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.6	6.6	6.7	6.5	6.7	6.6	6.6	6.5	6.3	6.2	6.5	6.4
2	6.7	6.6	6.6	6.6	6.7	6.6	6.5	6.5	6.3	6.2	6.6	6.5
3	6.7	6.6	6.6	6.6	6.7	6.7	6.7	6.5	6.4	6.3	6.6	6.5
4	6.7	6.6	6.6	6.6	6.7	6.6	6.7	6.6	6.4	6.3	6.6	6.5
5	6.7	6.7	6.5	6.5	6.7	6.6	6.7	6.6	6.4	6.3	6.6	6.5
6	6.7	6.6	6.5	6.4	6.8	6.6	6.6	6.5	6.4	6.4	6.5	6.5
7	6.7	6.7	6.4	6.2	6.8	6.7	6.6	6.5	6.5	6.4	6.6	6.5
8	6.7	6.7	6.3	6.2	6.8	6.7	6.6	6.5	6.5	6.4	6.6	6.5
9	6.7	6.7	6.3	6.2	6.8	6.6	---	---	6.5	6.3	6.5	6.5
10	6.7	6.7	6.3	6.2	6.7	6.6	---	---	6.5	6.3	6.5	6.3
11	6.8	6.7	6.4	6.3	6.7	6.7	6.9	6.7	6.4	6.4	6.3	6.2
12	6.8	6.7	6.5	6.4	6.8	6.7	6.8	6.7	6.5	6.4	6.4	6.2
13	6.8	6.7	6.5	6.5	6.7	6.7	6.7	6.7	6.5	6.4	6.4	6.3
14	6.7	6.7	6.6	6.5	6.7	6.5	6.7	6.6	6.5	6.4	6.4	6.4
15	6.7	6.7	6.6	6.5	6.6	6.6	6.8	6.7	6.5	6.4	6.4	6.3
16	6.7	6.7	6.6	6.5	6.7	6.6	6.8	6.7	6.5	6.4	6.4	6.4
17	6.7	6.7	6.6	6.5	6.7	6.6	6.7	6.6	6.5	6.4	6.4	6.4
18	6.7	6.7	6.6	6.5	6.6	6.6	6.7	6.6	6.5	6.4	6.5	6.4
19	6.9	6.7	6.6	6.6	6.7	6.6	6.6	6.6	6.5	6.4	6.4	6.4
20	6.9	6.8	6.6	6.6	6.9	6.7	6.6	6.4	6.5	6.4	6.5	6.4
21	6.9	6.7	6.6	6.6	6.8	6.7	6.4	6.3	6.6	6.5	6.6	6.4
22	6.8	6.7	6.6	6.5	6.8	6.7	6.5	6.4	6.6	6.5	6.5	6.4
23	6.9	6.8	6.6	6.5	6.8	6.7	6.5	6.5	6.6	6.5	6.5	6.4
24	6.9	6.8	6.6	6.5	6.8	6.7	6.5	6.5	6.5	6.5	6.5	6.4
25	6.8	6.8	6.6	6.6	6.7	6.6	6.5	6.3	6.5	6.3	6.6	6.5
26	6.8	6.6	6.7	6.6	6.8	6.7	6.3	6.1	6.4	6.4	6.6	6.5
27	6.8	6.8	6.7	6.7	6.8	6.7	6.2	6.2	6.5	6.4	6.6	6.5
28	6.8	6.8	6.7	6.6	6.8	6.7	6.3	6.2	6.5	6.4	6.6	6.5
29	6.8	6.8	6.7	6.6	6.8	6.7	6.2	6.2	---	---	6.6	6.5
30	6.8	6.7	6.7	6.7	6.7	6.6	6.3	6.2	---	---	6.7	6.6
31	6.7	6.7	---	---	6.7	6.6	6.3	6.2	---	---	6.6	6.5
MONTH	6.9	6.6	6.7	6.2	6.9	6.5	6.9	6.1	6.6	6.2	6.7	6.2

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.6	6.5	6.6	6.5	6.5	6.4	6.4	6.2	6.5	6.4	---	---
2	6.5	6.4	6.5	6.4	6.4	6.4	6.4	6.3	6.4	6.4	---	---
3	6.5	6.4	6.4	6.3	6.5	6.4	6.4	6.3	6.4	6.4	---	---
4	6.5	6.4	6.4	6.3	6.5	6.4	6.4	6.3	6.4	6.2	---	---
5	6.5	6.5	6.4	6.3	6.5	6.5	6.4	6.4	6.3	6.2	---	---
6	6.5	6.4	6.4	6.3	6.5	6.4	6.5	6.4	6.3	6.1	6.5	6.4
7	6.5	6.4	6.4	6.4	6.5	6.4	6.5	6.5	6.4	6.3	6.5	6.4
8	---	---	6.4	6.4	---	---	6.5	6.5	6.4	6.3	6.5	6.4
9	---	---	6.4	6.4	---	---	6.5	6.4	6.3	6.2	6.5	6.4
10	---	---	6.4	6.2	---	---	6.5	6.5	6.4	6.3	6.5	6.5
11	---	---	6.3	6.2	---	---	6.5	6.4	6.4	6.1	6.6	6.5
12	6.5	6.4	6.2	6.2	---	---	6.5	6.4	6.2	6.0	6.5	6.4
13	6.5	6.3	6.3	6.2	6.6	6.5	6.5	6.4	6.5	6.2	6.5	6.5
14	6.4	6.3	6.4	6.3	6.6	6.5	6.5	6.4	6.7	6.1	6.4	6.2
15	6.5	6.4	6.4	6.3	6.6	6.5	6.5	6.4	6.2	6.1	6.3	6.1
16	6.5	6.4	6.4	6.3	6.7	6.5	6.5	6.4	6.2	6.2	6.3	6.2
17	6.5	6.4	6.3	6.3	6.6	6.5	6.5	6.4	6.3	6.2	6.3	6.3
18	6.5	6.5	6.4	6.3	6.6	6.5	6.5	6.4	6.3	6.2	6.4	6.3
19	6.5	6.4	6.4	6.4	6.7	6.6	6.5	6.4	6.3	6.3	6.4	6.3
20	6.5	6.5	6.4	6.4	6.6	6.5	6.4	6.4	6.3	6.3	6.4	6.3
21	6.6	6.5	6.4	6.4	6.6	6.5	6.5	6.4	6.3	6.3	6.4	6.4
22	6.6	6.5	6.4	6.4	6.6	6.5	6.6	6.5	6.4	6.3	6.4	6.4
23	6.6	6.5	6.4	6.3	6.6	6.5	6.5	6.5	6.4	6.3	6.4	6.4
24	6.5	6.5	6.4	6.3	6.8	6.6	6.6	6.5	6.4	6.4	6.4	6.4
25	6.6	6.5	6.4	6.3	6.8	6.5	6.5	6.5	6.4	6.3	6.5	6.5
26	6.6	6.5	6.4	6.3	6.7	6.5	6.6	6.4	6.3	6.2	6.5	6.4
27	6.6	6.6	6.4	6.3	6.8	6.5	6.4	6.4	6.4	6.3	6.5	6.4
28	6.6	6.5	6.5	6.3	6.8	6.5	6.4	6.3	6.4	6.4	6.5	6.4
29	6.5	6.5	---	---	6.7	6.5	6.4	6.4	6.4	6.3	6.5	6.4
30	6.5	6.5	---	---	6.8	6.5	6.5	6.4	6.4	6.3	6.5	6.4
31	---	---	---	---	---	---	6.5	6.5	6.3	6.3	---	---
MONTH	6.6	6.3	6.6	6.2	6.8	6.4	6.6	6.2	6.7	6.0	6.6	6.1

02213700 OCMULGEE RIVER NEAR WARNER ROBINS, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	26.0	24.5	17.5	16.5	15.0	14.5	8.5	8.0	5.0	4.5	9.5	9.0
2	26.5	25.5	18.0	17.0	14.5	13.0	8.5	7.5	5.5	5.0	9.5	8.0
3	25.0	23.5	18.0	17.5	13.0	12.0	7.5	6.0	5.5	5.0	8.0	7.0
4	23.5	22.0	18.5	18.0	13.5	12.0	6.5	5.0	6.0	5.0	7.0	6.5
5	22.5	21.5	19.0	18.5	15.5	13.5	7.0	5.5	5.5	5.0	8.0	6.0
6	22.5	21.0	19.0	18.5	15.5	13.5	8.5	7.0	5.0	4.0	9.0	7.5
7	22.5	21.0	18.5	18.0	13.5	9.5	---	---	4.0	3.0	10.0	9.0
8	22.0	21.5	18.5	18.0	9.5	8.5	---	---	3.5	3.0	10.0	9.5
9	23.5	22.0	18.5	18.0	9.0	8.5	---	---	5.0	3.0	9.5	8.5
10	22.5	21.0	18.5	17.5	9.0	7.0	---	---	7.0	4.5	8.0	7.5
11	21.5	20.5	17.5	15.0	7.0	6.5	4.5	4.0	7.5	5.5	10.0	7.5
12	22.0	20.5	15.0	14.0	7.0	6.0	5.0	4.0	7.5	5.5	11.5	9.5
13	20.5	19.0	14.0	13.0	9.0	7.0	5.5	4.5	9.0	7.0	12.5	11.0
14	19.0	18.0	13.0	12.5	11.5	9.0	5.5	4.0	9.5	8.5	13.5	12.5
15	18.5	17.5	13.5	12.0	12.0	11.0	4.0	3.0	8.0	7.0	15.0	13.5
16	18.5	17.5	14.5	13.0	12.0	11.5	3.5	2.5	8.5	7.5	15.5	14.0
17	18.0	16.5	16.0	14.5	12.0	11.5	5.5	3.5	8.5	7.0	14.0	12.0
18	16.5	16.5	16.0	15.0	12.5	11.5	6.0	4.5	9.0	8.0	12.0	11.0
19	18.0	17.5	15.0	14.0	11.5	11.0	6.0	5.5	9.0	8.5	13.0	11.0
20	18.0	16.5	14.5	14.0	12.5	11.0	5.5	5.5	9.5	8.5	14.5	12.5
21	18.0	17.0	15.0	14.0	12.0	10.0	5.5	5.0	9.5	8.0	15.5	14.0
22	18.5	17.0	16.0	14.5	10.0	8.5	5.0	4.5	7.5	6.5	16.5	14.5
23	18.0	17.0	16.0	15.5	8.5	8.0	5.0	4.0	6.5	5.5	17.0	15.0
24	18.5	17.0	15.5	15.5	9.0	8.5	5.5	5.0	7.5	5.5	18.0	16.5
25	19.0	18.0	16.0	15.5	10.5	9.0	9.0	5.5	9.0	6.5	18.5	17.0
26	20.0	19.0	15.5	13.0	10.0	8.5	9.5	7.5	11.0	8.5	18.0	16.5
27	19.0	18.0	12.5	10.5	8.0	6.5	7.0	5.5	10.0	9.0	16.5	15.0
28	18.5	18.0	12.0	10.5	6.5	6.0	5.5	4.5	10.0	9.5	15.0	14.0
29	18.5	18.0	14.0	12.0	6.0	5.5	4.5	4.0	---	---	16.5	14.0
30	18.0	17.5	14.5	13.0	7.0	6.5	4.0	3.0	---	---	18.0	16.0
31	17.5	17.0	---	---	8.0	7.0	4.5	3.5	---	---	18.0	16.0
MONTH	26.5	16.5	19.0	10.5	15.5	5.5	9.5	2.5	11.0	3.0	18.5	6.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	19.0	17.0	20.5	19.5	26.5	25.0	30.5	29.5	29.5	28.0	---	---
2	20.5	18.5	19.5	18.0	27.0	26.0	31.0	29.5	30.5	28.5	---	---
3	21.5	19.5	18.0	17.0	26.5	25.5	30.5	29.5	30.0	29.0	---	---
4	22.5	20.5	17.5	16.5	26.5	25.5	30.0	29.0	29.0	27.0	---	---
5	21.5	20.5	18.0	17.0	26.5	25.5	31.5	29.5	29.0	27.0	---	---
6	21.5	20.5	19.0	18.0	28.0	26.0	30.5	29.5	30.0	28.0	29.0	27.0
7	21.5	20.0	19.5	19.0	27.5	26.5	30.5	29.0	29.0	27.5	29.5	28.0
8	---	---	19.5	19.0	---	---	31.0	29.0	27.5	27.0	29.5	27.5
9	---	---	19.5	19.5	---	---	31.5	29.0	27.5	26.5	30.0	28.0
10	---	---	20.0	19.0	---	---	32.0	30.0	27.5	27.0	30.5	28.5
11	---	---	19.5	19.0	---	---	31.5	30.5	26.5	26.0	30.0	28.5
12	21.5	20.0	19.5	19.0	---	---	30.5	30.0	28.5	26.0	29.0	28.0
13	20.5	18.0	20.5	19.5	29.0	28.0	30.0	29.0	---	---	29.5	27.5
14	18.0	17.5	20.5	20.0	28.5	27.0	30.0	29.0	---	---	29.5	28.0
15	19.0	17.0	20.0	19.5	28.0	27.0	30.0	28.5	28.0	27.0	28.5	26.5
16	20.0	18.5	20.0	19.0	27.5	26.5	30.0	28.5	29.0	27.5	28.5	26.5
17	21.5	20.0	20.5	19.5	28.0	26.0	30.5	28.0	29.5	28.5	29.5	27.5
18	21.5	20.0	22.5	20.0	28.5	26.5	31.5	29.0	30.5	29.0	30.0	28.5
19	20.5	19.0	23.5	22.0	28.5	26.5	32.0	30.0	30.5	29.5	30.0	28.5
20	19.0	18.0	24.5	23.0	29.0	26.5	31.5	30.0	30.0	28.5	30.0	28.5
21	18.5	17.5	25.0	23.0	29.0	27.5	32.0	29.5	31.5	29.0	30.0	29.0
22	18.5	17.0	26.0	24.0	29.5	28.0	32.5	30.5	31.0	30.5	30.0	28.5
23	18.0	16.5	27.0	25.0	29.5	27.5	33.0	30.5	30.5	29.5	29.5	28.5
24	19.0	17.5	26.0	25.0	31.0	28.5	32.5	31.0	30.5	29.0	29.0	28.0
25	20.0	19.0	26.5	25.0	31.0	29.5	32.0	30.5	29.5	28.5	28.0	27.0
26	19.0	17.0	27.0	25.5	31.5	29.5	31.0	29.5	29.5	28.5	27.0	26.5
27	17.0	15.5	27.0	25.5	31.5	29.5	29.5	27.5	30.0	29.0	26.5	25.0
28	18.0	15.5	27.0	25.5	32.0	30.0	28.5	27.0	30.5	29.0	25.0	24.0
29	19.0	18.0	---	---	32.0	31.0	30.0	28.5	30.5	28.5	25.0	24.0
30	20.0	18.5	---	---	31.5	30.0	30.5	29.5	30.5	29.5	24.5	24.0
31	---	---	---	---	---	---	30.0	29.0	30.5	29.5	---	---
MONTH	22.5	15.5	27.0	16.5	32.0	25.0	33.0	27.0	31.5	26.0	30.5	24.0

02214265 OCMULGEE RIVER NEAR BONAIRE, GA.

LOCATION.--Lat 32°32'33", long 83°32'13", Houston-Twiggs County line, Hydrologic Unit 03070104, at bridge on State Highway 96, 0.4 mi (0.6 km) downstream from Flat Creek and 3.5 mi (5.6 km) east of Bonaire.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
03...	1145	1990	7.1	21.0	24.0	6.3
31...	1005	3250	7.0	15.0	16.0	7.8
DEC						
05...	1100	2180	7.0	22.0	15.0	8.1
FEB						
06...	1000	7000	6.6	-3.0	3.0	11.0
MAR						
06...	1110	4200	6.9	12.0	7.0	9.6
MAY						
01...	1020	1870	7.1	17.0	17.0	7.4
JUN						
05...	1110	2360	6.7	27.5	25.5	6.0
JUL						
10...	1120	928	6.7	28.5	27.0	5.3
AUG						
07...	1015	2860	6.9	26.0	26.0	5.6
SEP						
05...	0945	1160	7.0	27.0	25.5	6.0

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
03...	89	20	28	1.0	2300	--	.47	.04	.19	5.0
31...	83	60	34	1.4	150	--	.55	<.02	.17	6.0
DEC										
05...	95	60	21	1.6	430	--	.46	.09	.15	5.0
FEB										
06...	54	160	64	.8	40	--	.29	.05	.11	4.0
MAR										
06...	73	100	32	1.5	320	--	.45	.14	.09	8.0
MAY										
01...	86	45	32	1.1	2300	--	.42	.09	.19	5.0
JUN										
05...	78	90	28	1.3	23000	--	.58	.09	.07	4.0
JUL										
10...	109	50	15	1.9	230	28	.70	.11	.19	3.0
AUG										
07...	73	160	76	--	--	18	.62	.07	.24	6.0
SEP										
05...	104	60	15	1.0	430	24	.60	.08	.17	12

02215260 OCMULGEE RIVER AT ABBEVILLE, GA.

LOCATION.--Lat 31°59'47", long 83°16'43", Wilcox-Telfair County line, Hydrologic Unit 03070104, at bridge on State Highway 30, 1 mi (1.6 km) east of Abbeville.

DRAINAGE AREA.--4,450 mi^2 (11,500 km^2), approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Lloyd Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
03...	0815	1550	7.5	15.0	23.0	7.2
31...	0800	3500	7.2	9.0	16.0	7.6
DEC						
05...	0800	3240	7.2	11.5	14.0	8.5
FEB						
06...	0800	15000	6.6	-4.0	3.5	10.3
MAR						
06...	0915	4890	7.0	7.0	7.0	9.4
MAY						
01...	0830	3700	7.3	21.5	17.5	7.1
JUN						
05...	0910	3030	7.2	26.0	25.0	6.3
AUG						
07...	0810	2720	7.1	24.0	26.0	6.2

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
03...	117	25	12	.4	40	--	.74	<.02	.15	5.0
31...	--	25	21	.9	210	--	.51	<.02	.16	5.0
DEC										
05...	94	50	20	.8	150	--	.48	.03	.11	4.0
FEB										
06...	52	120	52	.6	230	--	.32	.09	.08	3.0
MAR										
06...	77	70	24	.9	230	--	.48	.07	.09	3.0
MAY										
01...	88	35	14	.7	70	--	.56	<.02	.14	3.0
JUN										
05...	97	75	19	1.0	430	--	.66	.02	.13	4.0
AUG										
07...	104	60	25	--	--	27	.58	<.02	.15	6.0

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.

LOCATION.--Lat 31°55'06", long 82°40'26", Telfair-Jeff Davis County line, Hydrologic Unit 03070104, near left bank on downstream end of pier of bridge on U.S. Highway 341 at Lumber City, 500 ft (152 m) downstream from Southern Railway bridge, 1 mi (1.6 km) upstream from Little Ocmulgee River, and 12 mi (19.3 km) upstream from confluence with Oconee River.

DRAINAGE AREA.--5,180 mi^2 (13,400 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1936 to current year. Gage-height records collected at same site since 1908 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1504: 1937.

GAGE.--Water-stage recorder. Datum of gage is 87.48 ft (26.66 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1937, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated by Lloyds Shoals Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02210000.)

AVERAGE DISCHARGE.--42 years, 5,659 ft^3/s (160 m^3/s), 14.84 in/yr (376.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 70,000 ft^3/s (1,980 m^3/s) Dec. 8, 1948; maximum gage height, 22.7 ft (6.92 m) Dec. 9, 1948; minimum discharge, 800 ft^3/s (22.7 m^3/s) Oct. 30 to Nov. 3, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1841, 98,400 ft^3/s (2,790 m^3/s) Jan. 21, 1925, from rating extended above 67,000 ft^3/s (1,900 m^3/s) on basis of records of peak flow for stations on Ocmulgee, Oconee, and Altamaha Rivers; maximum stage known, 26.3 ft (8.02 m) Jan. 21, 1925, backwater from Oconee River.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 43,400 ft^3/s (1230 m^3/s) Feb. 5, gage height, 18.22 ft (5.553 m); minimum, 1,520 ft^3/s (43.0 m^3/s) Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2150	2890	3230	4850	21200	5720	5860	4400	3340	1890	1850	1980
2	2120	3100	3270	5000	25500	5710	5630	4370	3140	1980	1910	1940
3	2060	3260	3310	5030	33700	5640	5400	4250	3060	2020	1880	1940
4	1980	3430	3430	5020	40600	5820	5240	4530	3140	2090	1880	1870
5	1920	4080	3490	5040	41700	6080	5120	5390	3220	2110	1970	1820
6	2000	4290	3690	5090	38900	6250	4870	5890	3220	2070	2010	1760
7	2140	4070	4020	5180	33200	6330	4410	6090	3370	2100	2070	1730
8	2040	4080	4150	5400	26800	6390	4040	6220	3710	2170	2230	1700
9	1910	4100	4070	6080	22200	6890	3900	6520	3820	2040	2540	1680
10	1850	4150	3900	6390	18500	7700	3830	7360	3520	1910	2950	1670
11	1850	4260	3940	6330	15700	8450	3720	8790	3320	1820	3390	1630
12	1880	4390	3980	5860	13400	8710	3610	9920	3190	1780	3850	1640
13	1850	4540	3820	5660	11500	8780	3580	10900	3310	1720	4050	1660
14	1890	4780	3510	6190	10300	8950	4150	11900	3580	1680	4100	1610
15	2070	5110	3580	6270	9380	9700	4680	12900	3740	1680	4110	1580
16	2370	5530	3550	6210	8690	10500	5010	13300	3500	1870	4150	1570
17	2640	6060	3470	6080	8120	11100	5300	12800	3080	2430	4250	1560
18	2850	6530	3460	6000	7710	11400	5600	12200	2890	2380	4420	1600
19	2910	6870	3530	6300	7660	11900	6020	12000	2790	2500	4610	1760
20	2810	6890	3590	7720	7660	12600	6510	12300	2650	2440	4810	1860
21	2630	6450	3580	8570	7560	13000	6810	12400	2460	2370	4930	1820
22	2400	5510	3460	9010	7420	12900	6870	12100	2270	2220	4730	1760
23	2230	4440	3380	9180	7310	12200	6750	11100	2150	2020	3850	1700
24	2170	3640	3380	8940	7220	11100	6460	9490	2100	1860	3230	1640
25	2180	3250	3480	9120	6980	10100	6160	7280	2110	1770	2770	1600
26	2110	3240	3830	12200	6530	9160	5980	5110	2090	1710	2480	1560
27	1970	3400	3930	15600	6100	8220	5860	4170	2040	1650	2340	1540
28	1870	3460	3830	17700	5790	7320	5750	3940	1970	1610	2240	1530
29	1850	3400	3840	17700	---	6650	5270	3660	1930	1600	2230	1530
30	2020	3300	4040	17500	---	6250	4650	3510	1890	1640	2200	1520
31	2480	---	4480	18400	---	6020	---	3460	---	1760	2070	---
TOTAL	67200	132500	114220	259620	457330	267540	157040	248250	86600	60890	96100	50760
MEAN	2168	4417	3685	8375	16330	8630	5235	8008	2887	1964	3100	1692
MAX	2910	6890	4480	18400	41700	13000	6870	13300	3820	2500	4930	1980
MIN	1850	2890	3230	4850	5790	5640	3580	3460	1890	1600	1850	1520
CFSM	.42	.85	.71	1.62	3.15	1.67	1.01	1.55	.56	.38	.60	.33
IN.	.48	.95	.82	1.86	3.28	1.92	1.13	1.78	.62	.44	.69	.36

CAL YR 1977 TOTAL 1966960 MEAN 5389 MAX 23100 MIN 1430 CFSM 1.04 IN 14.13
WTR YR 1978 TOTAL 1998050 MEAN 5474 MAX 41700 MIN 1520 CFSM 1.06 IN 14.35

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
04...	1015	1990	7.5	16.0	22.0	7.8
NOV						
01...	1450	2930	7.5	23.0	19.0	7.4
DEC						
06...	1030	3660	7.2	9.0	14.0	7.2
FEB						
07...	1600	32400	6.4	3.0	4.0	11.4
MAR						
07...	1030	6320	7.0	10.5	9.0	9.1
MAY						
02...	1340	4330	7.2	24.5	19.0	7.8
JUN						
06...	1000	3210	7.0	26.0	26.0	6.0
JUL						
11...	1155	1820	7.5	31.0	30.0	6.3
AUG						
08...	1130	2240	7.6	29.0	28.0	6.2
SEP						
06...	1430	1760	7.5	30.0	28.0	6.8

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)
OCT						
04...	121	15	11	8	.4	<30
NOV						
01...	51	30	15	12	.4	150
DEC						
06...	96	60	18	9	.5	110
FEB						
07...	41	200	75	21	--	40
MAR						
07...	80	70	16	14	.7	70
MAY						
02...	92	30	11	12	.6	<30
JUN						
06...	106	50	16	8	--	--
JUL						
11...	124	30	17	--	.7	40
AUG						
08...	117	45	17	--	1.7	40
SEP						
06...	130	30	14	--	.5	60

02215500 OCMULGEE RIVER AT LUMBER CITY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALKALINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
04...	--	12	.65	<.02	.31	.07	5.0
NOV							
01...	--	18	.55	<.02	.24	.12	4.0
DEC							
06...	--	33	.44	.05	.05	.09	4.0
FEB							
07...	--	4	.21	<.02	<.10	.08	4.0
MAR							
07...	--	17	.35	<.02	.29	.06	4.0
MAY							
02...	--	14	.62	<.02	.18	.12	4.0
JUN							
06...	--	13	.60	<.02	.10	.07	3.0
JUL							
11...	43	2	.48	<.02	--	.07	2.0
AUG							
08...	39	14	.28	<.02	--	.10	6.0
SEP							
06...	46	6	.56	.04	--	.08	6.0

02216610 TILLMAN MILL CREEK NEAR LUMBER CITY, GA.

LOCATION.--Lat 31°58'53", long 82°38'32", Wheeler County, Hydrologic Unit 03070104, on right bank 18 ft (5.5 m) upstream from culvert on State Highway 19, 4.3 mi (6.9 km) northeast of Lumber City, and 4.7 mi (7.6 km) upstream from mouth.

DRAINAGE AREA.--2.71 mi² (7.02 km²).

PERIOD OF RECORD.--Annual maximum, water years 1966-74, October 1974 to current year. Prior to October 1975, published as Ocmulgee River Tributary near Lumber City.

GAGE.--Water-stage recorder. Altitude of gage is 168 ft (51 m), from topographic map. Prior to Oct. 1, 1974, at datum 2.00 ft (0.61 m) lower.

REMARKS.--Records fair. Figures of runoff for the 1975 water year have been found to be in error and should not be used.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,070 ft³/s (30.3 m³/s) May 23, 1973, gage height, 9.39 ft (2.923 m), present datum, from floodmarks; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 140 ft³/s (3.96 m³/s) and maximum (*):

Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft³/s)	Discharge (m³/s)	Gage height (ft)	Gage height (m)
Jan. 19	1330	149	4.22	4.39	1.399	Jan. 25	1315	*411	11.6	6.25	1.905

Minimum discharge, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	6.3	3.3	4.0	7.4	1.5	3.8	.00	.00	.00	.00
2	.00	.00	2.0	2.8	13	4.0	1.3	3.0	.00	.00	.00	.92
3	.00	.00	1.2	2.5	6.3	6.8	1.2	2.0	.00	.00	1.4	1.5
4	.00	.09	.95	2.2	4.9	4.7	1.0	33	.66	.00	.79	.22
5	.00	8.1	4.7	2.2	4.2	3.5	.87	4.8	.16	.00	.14	.07
6	.00	1.0	3.1	2.4	4.0	3.3	.72	2.0	.06	.54	.08	.04
7	.00	.48	1.5	2.5	3.8	3.0	.65	1.5	.09	.07	.07	.02
8	.00	.30	1.2	13	3.8	14	.53	1.8	.05	.01	.05	.00
9	.00	.22	1.2	13	5.6	12	.43	6.1	.07	.00	.23	.00
10	.00	.22	1.2	3.5	4.2	12	.34	4.5	.04	.00	8.8	.00
11	.00	.13	1.1	2.8	3.7	6.0	.34	1.2	.01	.00	14	.00
12	.00	.11	1.1	2.8	3.5	6.8	1.1	.74	.01	.00	10	.00
13	.00	.09	1.1	24	3.7	5.6	14	1.0	.00	.00	4.7	.00
14	.00	.13	11	7.7	3.3	17	5.8	.73	.00	.00	1.4	.00
15	.00	.16	5.1	4.4	3.0	9.5	1.7	.41	.00	.46	.80	.00
16	.00	.19	2.2	3.8	4.2	5.8	1.0	.35	.00	18	.49	.00
17	.00	.30	2.0	5.8	4.0	4.4	.71	.80	.00	7.3	.32	.00
18	.00	.26	1.9	4.7	12	4.0	1.2	1.1	.00	.71	.24	.00
19	.00	.22	1.5	51	5.8	3.7	5.8	.50	.00	.88	.22	.00
20	.00	.19	1.7	16	4.2	3.7	2.0	.26	.00	.18	.15	.00
21	.00	.22	4.9	6.6	3.8	3.5	1.1	.10	.00	.08	.13	.00
22	.00	.38	2.1	5.3	3.3	3.6	.68	.05	.00	.03	.20	.00
23	.00	2.7	1.6	4.7	3.3	3.3	.53	.04	.00	.01	.21	.00
24	.00	2.2	1.6	4.4	3.3	3.1	.50	1.2	.00	.00	.11	.00
25	.00	2.0	9.2	114	3.1	3.1	.50	1.2	.00	.00	.06	.00
26	.00	1.0	3.7	26	3.0	3.3	2.1	.14	.00	.00	.00	.00
27	.00	.72	2.2	7.7	2.8	2.4	.99	.16	.00	.00	.00	.00
28	.00	.59	2.1	6.3	6.8	2.2	.51	.09	.00	.00	.00	.00
29	.00	.59	2.0	5.1	---	2.1	.31	.05	.00	.00	.00	.00
30	.00	2.1	7.1	4.7	---	1.9	.20	.03	.00	.00	.00	.00
31	.00	---	5.8	4.4	---	1.6	---	.01	---	.00	.00	---
TOTAL	.00	24.69	94.35	359.6	130.6	167.5	49.61	72.66	1.15	28.27	44.59	2.77
MEAN	.000	.82	3.04	11.6	4.66	5.40	1.65	2.34	.038	.91	1.44	.092
MAX	.00	8.1	11	114	13	17	14	33	.66	18	14	1.5
MIN	.00	.00	.95	2.2	2.8	1.6	.20	.01	.00	.00	.00	.00
CFSM	.000	.30	1.12	4.28	1.72	1.99	.61	.86	.01	.34	.53	.03
IN.	.00	.34	1.29	4.93	1.79	2.30	.68	1.00	.02	.39	.61	.04

CAL YR 1977 TOTAL 907.05 MEAN 2.49 MAX 112 MIN .00 CFSM .92 IN 12.45
WTR YR 1978 TOTAL 975.79 MEAN 2.67 MAX 114 MIN .00 CFSM .99 IN 13.39

02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA.

LOCATION.--Lat 33°56'48", long 83°25'22", Clarke County, Hydrologic Unit 03070101, on left bank 0.5 mi (0.8 km) upstream from U.S. Highway 29, 2 mi (3.2 km) west of Athens, and 5 mi (8.0 km) upstream from Barber Creek.

DRAINAGE AREA.--398 mi^2 (1,030 km^2).

PERIOD OF RECORD.--October 1901 to October 1902, January 1929 to March 1932, April 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 555.66 ft (169.37 m) National Geodetic Vertical Datum of 1929. Oct. 11, 1901 to Oct. 25, 1902, nonrecording gage at site 1 mi (1.6 km) upstream at different datum. Jan. 16, 1929 to Mar. 15, 1932, and Apr. 29, 1937 to Sept. 30, 1940, water-stage recorder at site 4 mi (6.4 km) downstream at different datum.

REMARKS.--Records good. Records of chemical analyses for the water years 1968-74 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--44 years, 526 ft^3/s (14.9 m^3/s), 17.95 in/yr (455.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 19,600 ft^3/s (555 m^3/s) Feb. 28, 1902, gage height, 25.5 ft (7.772 m), site and datum then in use; minimum daily, 26 ft^3/s (0.74 m^3/s) Sept. 7, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,800 ft^3/s (108 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 26	0930	3860	109	9.93	3.027	Jan. 27	0930	7310	207	14.85	4.526
Nov. 7	0330	*12500	354	20.10	6.126						

Minimum discharge, 105 ft^3/s (2.97 m^3/s) Sept. 23, 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	411	563	524	811	463	426	490	299	172	266	162
2	325	381	566	474	759	460	417	705	281	200	222	168
3	781	378	497	443	709	574	410	522	275	170	218	168
4	373	415	467	415	652	565	403	504	269	158	192	160
5	266	2630	462	401	615	491	399	694	260	152	642	158
6	228	8700	514	446	592	467	395	550	251	148	408	148
7	211	10700	451	1030	563	463	390	482	251	148	1080	142
8	207	3850	414	872	546	504	383	629	359	152	1490	137
9	2060	1630	410	1290	542	760	377	1580	446	148	524	131
10	3100	1310	414	1620	538	1950	373	1540	347	155	524	127
11	1570	1050	387	847	525	1940	384	760	296	165	468	122
12	620	903	376	667	507	1040	468	600	281	188	415	123
13	454	793	373	663	515	816	498	569	272	158	371	127
14	378	700	392	721	558	758	517	544	263	152	350	127
15	339	642	456	628	515	787	430	492	242	180	308	127
16	311	599	411	563	492	694	392	471	236	728	569	138
17	289	574	390	676	481	638	375	450	230	887	404	141
18	272	565	480	1170	483	592	411	457	222	359	314	131
19	262	529	560	911	511	564	758	450	218	263	278	122
20	250	494	466	1720	481	547	817	415	215	222	251	120
21	240	475	437	2030	464	533	547	422	225	202	230	113
22	234	466	408	1190	455	521	472	368	239	188	215	110
23	228	490	392	859	442	507	432	356	218	182	205	108
24	229	491	387	760	445	492	412	356	210	175	198	109
25	371	451	510	2320	439	485	435	350	198	182	188	124
26	3260	429	569	5930	429	492	579	335	192	200	182	134
27	2740	400	457	6630	419	496	475	329	190	205	188	130
28	986	413	426	2490	443	464	421	335	185	468	212	125
29	628	585	404	1240	---	450	389	350	180	371	190	118
30	522	464	446	1020	---	443	372	329	172	242	175	115
31	456	---	604	899	---	432	---	314	---	192	170	---
TOTAL	22377	41838	14089	41449	14931	20380	13557	16806	7522	7512	11447	3965
MEAN	722	1395	454	1337	533	657	452	542	251	242	369	132
MAX	3260	10700	604	6630	811	1950	817	1580	446	887	1490	168
MIN	187	378	373	401	419	432	372	314	172	148	170	108
CFSM	1.81	3.51	1.14	3.36	1.34	1.65	1.14	1.36	.63	.61	.93	.33
IN.	2.09	3.91	1.32	3.87	1.40	1.90	1.27	1.57	.70	.70	1.07	.37

CAL YR 1977 TOTAL 217440 MEAN 596 MAX 10700 MIN 111 CFSM 1.50 IN 20.32
WTR YR 1978 TOTAL 215873 MEAN 591 MAX 10700 MIN 108 CFSM 1.49 IN 20.18

02217500 MIDDLE OCONEE RIVER NEAR ATHENS, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to November 1977.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT							
31...	1115	454	16.0	38	82	101	62
NOV							
07...	1000	11800	--	210	215	6850	71

02217740 NORTH OCONEE RIVER ABOVE ATHENS, GA.

LOCATION.--Lat 33°58'28", long 83°22'56", Clarke County, Hydrologic Unit 03070101, at city of Athens water works intake, 0.3 mi (0.5 km) north of Athens city limit.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 13...	0750	620	7.4	12.0	13.0	7.6
NOV 08...	1440	--	6.4	25.0	15.0	7.0
DEC 14...	1030	370	6.9	16.0	8.0	10.1
JAN 11...	1000	--	6.7	-3.3	1.0	--
FEB 08...	0815	240	7.0	-2.0	2.0	--
MAR 15...	0745	620	7.3	11.0	15.0	7.9
APR 11...	0845	295	7.1	20.0	19.5	7.0
MAY 17...	1135	325	6.9	22.0	17.0	8.3
JUN 14...	1425	220	7.3	28.0	23.5	7.2
JUL 13...	1450	70	7.2	33.0	25.0	7.4
AUG 16...	0945	190	7.0	30.0	23.5	7.1
SEP 13...	1550	94	6.9	31.5	24.0	7.5

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 13...	47	60	.8	23000	430	--	.24	<.04	.07	5.0
NOV 08...	34	200	1.2	9300	930	--	.17	.12	.15	7.0
DEC 14...	55	15	.4	--	160	--	.37	<.02	.02	1.0
JAN 11...	41	55	1.1	--	--	--	.40	.04	.13	6.0
FEB 08...	48	25	.8	43000	43000	--	.45	.05	.03	2.0
MAR 15...	48	36	1.7	9300	230	--	.33	<.02	.04	<1.0
APR 11...	59	22	1.7	15000	930	--	.44	.08	.03	4.5
MAY 17...	54	26	.6	4300	930	--	.42	.03	.04	3.0
JUN 14...	58	33	1.0	9300	930	--	.46	<.02	.03	3.0
JUL 13...	64	17	.6	1500	150	26	.36	.02	.02	<1.0
AUG 16...	66	25	.3	43000	4300	23	.32	<.02	.02	3.0
SEP 13...	54	19	1.0	21000	430	27	.28	.05	.03	<1.0

02218000 OCONEE RIVER NEAR WATKINSVILLE, GA.

LOCATION.--Lat 33°51'21", long 83°19'35", Oconee-Clarke County line, Hydrologic Unit 03070101, at bridge on Barnett Shoals Road, 1 mi (1.6 km) upstream from Barnett Shoals Dam and 4 mi (6.4 km) east of Watkinsville.
DRAINAGE AREA.--783 mi^2 (2,030 km^2).
PERIOD OF RECORD.--July 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for water years 1901-2 are published in records of the Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 13...	0850	1180	6.7	13.0	13.0	8.4
NOV 08...	1540	--	6.6	23.5	15.0	8.3
DEC 14...	0900	600	7.0	14.5	9.5	10.4
JAN 11...	0800	2610	7.0	-10.5	1.0	--
FEB 08...	0700	980	7.0	-3.0	2.0	--
MAR 15...	0930	1400	7.2	18.0	15.5	8.3
APR 11...	0730	820	7.1	20.0	20.0	7.2
MAY 17...	1000	820	6.9	21.0	17.0	8.2
JUN 14...	1240	520	7.1	25.5	24.0	6.2
JUL 13...	1345	295	7.0	30.0	25.5	7.3
AUG 16...	0850	760	7.0	27.0	24.0	7.2
SEP 14...	0530	325	6.8	22.5	23.0	6.0

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 13...	53	80	--	1.0	230	--	69	.46	.10	--	.15	6.0
NOV 08...	36	192	--	1.4	12650	--	111	.22	.06	--	.15	8.0
DEC 14...	66	17	--	.7	4300	--	6	.61	.24	--	.12	1.0
JAN 11...	46	56	--	1.9	43000	--	105	.52	.07	--	.20	8.0
FEB 08...	52	28	--	.6	150	--	19	.56	.19	--	.09	3.0
MAR 15...	54	40	--	1.1	7500	--	37	.56	.09	--	.10	<1.0
APR 11...	61	17	--	1.7	430	--	14	.71	.14	--	.14	3.5
MAY 17...	62	30	--	.8	430	--	45	.68	.11	--	.13	2.0
JUN 14...	66	28	--	.9	2300	--	30	.76	.03	--	.15	3.0
JUL 13...	79	28	11	1.4	230	21	16	1.3	.09	.40	.24	1.0
AUG 16...	65	240	18	1.6	23000	15	250	.64	.08	.52	.36	7.0
SEP 14...	71	17	<5	1.2	430	21	4	1.1	.22	.69	.27	2.0

02218300 OCONEE RIVER NEAR PENFIELD, GA.

LOCATION.--Lat 33°43'16", long 83°17'44", Greene County, Hydrologic Unit 03070101, on downstream side of bridge on State Highway 15, 7.0 mi (11.2 km) upstream from Greenbrier Creek, 8.0 mi (12.9 km) northwest of Penfield, and 10.0 mi (16.1 km) southeast of Watkinsville.

DRAINAGE AREA.--940 mi^2 (2,430 km^2).

PERIOD OF RECORD.--Water years 1970-77 (annual maximum), August 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 540 ft (165 m), from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,700 ft^3/s (558 m^3/s) Mar. 16, 1976, gage height, 22.11 ft (6.739 m); minimum daily, 252 ft^3/s (7.14 m^3/s) Sept. 24, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 6, 1936, reached a stage of 26.7 ft (8.14 m), discharge, 41,500 ft^3/s (1,180 m^3/s), from rating curve extended above 21,000 ft^3/s (595 m^3/s) on basis of computation of flow over Barnett Shoals Dam located 10 mi (16.1 km) upstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,600 ft^3/s (130 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 11	1600	5740	163	13.16	4.011	Jan. 20	1700	4620	131	11.74	3.578
Oct. 27	0500	6610	187	14.10	4.298	Jan. 26	1400	14900	422	19.68	5.998
Nov. 8	0100	*19500	552	22.00	6.706	May 9	1300	5200	147	12.50	3.810

Minimum daily discharge, 252 ft^3/s (7.14 m^3/s) Sept. 24.

ANNUAL PEAK DISCHARGES NOT PREVIOUSLY PUBLISHED.--

Date	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 20, 1970	11000	312	17.68	5.389	Jan. 3, 1974	13200	374	18.87	5.752
Mar. 3, 1971	19100	541	21.78	6.639	Mar. 14, 1975	18400	521	21.44	6.535
Jan. 13, 1972	16800	476	20.63	6.288	Mar. 16, 1976	19700	558	22.11	6.739
Dec. 16, 1972	16000	453	20.24	6.169	Apr. 2, 1977	8440	239	15.70	4.785

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	469	1310	1170	1410	2170	1070	990	1130	824	372	470	429
2	647	1270	1340	1240	1990	1080	972	1540	782	382	586	414
3	1280	1250	1230	1120	1860	1220	950	1390	757	388	477	767
4	1660	1270	1110	1040	1720	1360	959	1270	749	348	659	567
5	1640	4970	1070	994	1590	1270	949	1620	738	332	718	465
6	868	14200	1120	1070	1490	1130	915	1450	702	330	1100	431
7	626	17500	1100	1460	1400	1070	904	1200	792	325	1020	388
8	567	17400	972	1970	1340	1140	882	1250	1250	332	2120	377
9	2110	8750	941	1970	1310	1390	864	4600	1540	335	1640	371
10	4380	3610	951	2540	1300	3610	849	3430	1210	365	1160	351
11	5390	2340	925	2570	1270	4000	862	2320	973	348	1120	346
12	3510	1990	889	1810	1230	3640	1020	1680	867	358	1050	321
13	1600	1790	877	1570	1240	2340	1240	1530	794	360	966	332
14	1150	1660	918	1680	1310	1860	1230	1410	809	332	879	335
15	935	1520	1040	1560	1260	1770	1070	1290	763	352	831	344
16	829	1430	1040	1370	1180	1640	924	1210	701	1200	1330	352
17	754	1430	956	1520	1150	1460	862	1160	670	1620	1090	355
18	709	1380	1010	2150	1140	1350	946	1180	658	1190	858	371
19	676	1230	1240	2320	1190	1280	1310	1260	633	770	810	335
20	652	1100	1170	4160	1160	1250	1610	1120	600	594	674	303
21	630	1040	1040	4220	1100	1220	1470	1050	599	498	661	299
22	612	1020	970	3630	1070	1200	1150	993	667	435	576	281
23	596	1120	916	2360	1050	1160	1010	961	661	399	539	273
24	586	1200	891	1850	1040	1130	957	963	566	444	497	252
25	675	1130	1160	5440	1030	1120	992	952	530	554	482	314
26	5030	1050	1340	13500	1010	1150	1200	919	498	738	456	314
27	6430	968	1290	12300	990	1170	1230	884	478	534	500	351
28	5520	965	1110	10800	1000	1120	1050	879	450	1020	665	331
29	2390	1100	998	6020	---	1060	941	914	426	1270	635	309
30	1670	1160	1040	3010	---	1030	882	916	399	810	513	288
31	1450	---	1470	2450	---	1010	---	872	---	566	452	---
TOTAL	56041	98153	33294	101104	36590	47300	31190	43343	22086	17901	25534	10966
MEAN	1808	3272	1074	3261	1307	1526	1040	1398	736	577	824	366
MAX	6430	17500	1470	13500	2170	4000	1610	4600	1540	1620	2120	767
MIN	469	965	877	994	990	1010	849	872	399	325	452	252
CFSM	1.92	3.48	1.14	3.47	1.39	1.62	1.11	1.49	.78	.61	.88	.39
IN.	2.22	3.88	1.32	4.00	1.45	1.87	1.23	1.72	.87	.71	1.01	.43

WTR YR 1978 TOTAL 523502 MEAN 1434 MAX 17500 MIN 252 CFSM 1.53 IN 20.72

02218500 OCONEE RIVER NEAR GREENSBORO, GA.

LOCATION.--Lat 33°34'52", long 83°16'22", Greene County, Hydrologic Unit 03070101, on right bank 300 ft (91 m) downstream from bridge on State Highway 12, 1 mi (1.6 km) downstream from Town Creek, 5 mi (8.0 km) upstream from Apalachee River, 5 mi (8.0 km) west of Greensboro, and 12 mi (19.3 km) downstream from Barnett Shoals Dam.

DRAINAGE AREA.--1,090 mi^2 (2,820 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1903 to September 1932, October 1936 to September 1978 (discontinued). Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 262: 1908-9. WSP 822: Drainage area. WSP 1304: 1919-23. WSP 1504: 1908, 1912, 1915-16, 1917(M), 1919-23(M).

GAGE.--Water-stage recorder. Datum of gage is 409.82 ft (124.91 m) National Geodetic Vertical Datum of 1929, unadjusted. Prior to Nov. 8, 1938, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--71 years, 1,446 ft^3/s (41.0 m^3/s), 18.02 in/yr (457.7 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,800 ft^3/s (1,890 m^3/s) Aug. 26, 1908, gage height, 36.4 ft (10.79 m), from rating curve extended above 23,000 ft^3/s (651 m^3/s) on basis of velocity-area studies and computation of flow over Barnett Shoals Dam at gage heights 28.1 and 30.0 ft (8.56 and 9.14 m); minimum daily, 59 ft^3/s (1.67 m^3/s) Oct. 8, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 28	1200	5900	167	13.10	3.993
Nov. 8	1200	*18400	521	20.05	6.111
Jan. 27	0100	15300	433	18.81	5.733
May 9	2400	6310	179	13.51	4.118

Minimum daily discharge, 302 ft^3/s (8.55 m^3/s) Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	464	1340	1290	1540	2380	1270	1160	1340	809	436	544	479
2	479	1270	1440	1370	2230	1280	1140	1780	764	431	583	458
3	979	1260	1400	1240	2080	1370	1120	1600	736	460	561	669
4	1320	1250	1280	1160	1930	1520	1120	1430	728	416	676	663
5	1490	3400	1230	1100	1810	1460	1110	1730	719	385	691	537
6	879	11400	1260	1130	1710	1340	1080	1600	695	376	1030	487
7	618	16400	1230	1400	1570	1270	1060	1370	754	374	973	463
8	547	18000	1150	1950	1540	1320	1040	1520	1140	376	1760	414
9	1040	13800	1100	1980	1520	1520	1020	5150	1470	386	1700	427
10	3440	6720	1110	2300	1500	3510	1010	5510	1240	393	1240	408
11	4080	2730	1090	2480	1480	3850	1000	3000	976	407	1090	375
12	4340	2090	1050	1900	1440	3830	1110	1870	845	398	1090	378
13	1890	1890	1050	1620	1440	2700	1330	1630	784	420	975	374
14	1080	1760	1090	1700	1510	2080	1400	1510	750	389	852	364
15	896	1640	1200	1600	1480	1950	1240	1370	755	392	793	384
16	797	1560	1220	1420	1410	1830	1080	1260	695	953	1190	383
17	738	1530	1130	1540	1360	1650	1010	1210	665	1490	1090	394
18	698	1520	1150	2100	1350	1530	1020	1150	658	1250	858	403
19	664	1400	1320	2300	1320	1470	1380	1300	645	803	787	382
20	639	1270	1320	4250	1370	1430	1630	1150	625	641	686	354
21	627	1200	1170	4680	1310	1400	1580	1060	603	552	657	334
22	627	1180	1080	4020	1280	1370	1290	1000	629	499	616	334
23	627	1240	1050	2750	1250	1340	1130	962	687	501	582	309
24	583	1320	1030	2130	1240	1300	1070	948	605	561	544	302
25	587	1300	1200	4980	1230	1280	1160	965	565	583	531	304
26	2570	1210	1410	13100	1220	1310	1400	918	550	691	512	339
27	4870	1140	1390	14300	1200	1320	1400	875	533	625	507	365
28	5810	1110	1250	12300	1200	1290	1210	860	524	855	641	381
29	3880	1200	1110	8700	---	1230	1090	873	495	1250	642	345
30	1800	1290	1130	4140	---	1200	1030	893	475	880	574	328
31	1490	---	1560	2680	---	1180	---	850	---	633	511	---
TOTAL	50549	104420	37490	109860	42360	52400	35420	48684	22119	18806	25486	12137
MEAN	1631	3481	1209	3544	1513	1690	1181	1570	737	607	822	405
MAX	5810	18000	1560	14300	2380	3850	1630	5510	1470	1490	1760	669
MIN	464	1110	1030	1100	1200	1180	1000	850	475	374	507	302
CFSM	1.50	3.19	1.11	3.25	1.39	1.55	1.08	1.44	.68	.56	.75	.37
IN.	1.73	3.56	1.28	3.75	1.45	1.79	1.21	1.66	.75	.64	.87	.41

CAL YR 1977 TOTAL 553805 MEAN 1517 MAX 18000 MIN 269 CFSM 1.39 IN 18.90
WTR YR 1978 TOTAL 559731 MEAN 1534 MAX 18000 MIN 302 CFSM 1.41 IN 19.10

02218500 OCONEE RIVER NEAR GREENSBORO, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA. WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV 16...	1000	1560	7.1	14.0	13.5	9.2
FEB 07...	1530	1580	6.8	2.0	4.0	--
MAY 17...	0815	1220	6.9	20.0	18.0	7.9
AUG 15...	1530	762	7.1	30.5	27.5	6.9

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 16...	57	34	.6	2300	--	.54	.06	.10	3.0
FEB 07...	52	32	.2	140	--	.58	.09	.08	1.0
MAY 17...	59	30	.5	390	--	.68	<.02	.10	2.0
AUG 15...	59	48	1.3	230	19	.68	<.02	.12	2.0

02219000 APALACHEE RIVER NEAR BOSTWICK, GA.

LOCATION.--Lat 33°47'17", long 83°28'27", Morgan-Oconee County line, Hydrologic Unit 03070101, on left bank 1,000 ft (305 m) upstream from bridge on Price Mill Road, 3.0 mi (4.8 km) southwest of Bishop, 4.0 mi (6.4 km) upstream from Jacks Creek, and 4.0 mi (6.4 km) northeast of Bostwick.

DRAINAGE AREA.--176 mi^2 (456 km^2).

PERIOD OF RECORD.--June 1944 to December 1949, April 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 535 ft (163 m), from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--6 years (water years 1945-49, 1978), 276 ft^3/s (7.82 m^3/s), 21.30 in/yr (541.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,500 ft^3/s (241 m^3/s) Jan. 6, 1946, gage height, 8.9 ft (2.713 m); minimum discharge, 35 ft^3/s (0.99 m^3/s) July 13, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,200 ft^3/s (62.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 9	0700	2320	65.7	4.51	1.375
Oct. 26	2200	2700	76.5	4.77	1.454
Nov. 3	1400	*5990	170	7.03	2.143
Jan. 25	2400	5600	159	6.80	2.073

Minimum discharge, 41 ft^3/s (1.16 m^3/s) July 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	174	105	66	97	65
2							---	177	94	94	184	60
3							---	172	85	104	454	58
4							---	168	80	84	282	57
5							---	167	76	72	177	64
6							---	158	74	63	127	68
7							---	149	82	56	102	73
8							---	143	81	51	87	122
9							---	138	78	48	98	153
10							---	131	75	45	97	113
11							---	129	72	40	76	95
12							---	124	73	37	68	82
13							---	121	69	36	63	75
14							---	117	69	43	61	73
15							---	114	68	53	60	75
16							---	109	72	58	70	225
17							---	104	127	50	87	416
18							---	103	146	55	196	258
19							---	102	117	48	240	200
20							---	100	99	46	135	154
21							---	104	93	42	103	131
22							---	100	85	39	89	112
23							---	100	84	45	80	101
24							---	97	89	46	76	95
25							---	122	84	45	81	92
26							---	135	77	45	92	95
27							---	152	77	45	106	95
28							172	186	68	67	90	104
29							172	154	62	158	78	101
30							171	130	60	193	72	97
31							---	114	---	140	68	---
TOTAL							---	4094	2521	2014	3696	3509
MEAN							---	132	84.0	65.0	119	117
MAX							---	186	146	193	454	416
MIN							---	97	60	36	60	57
CFSM							---	.75	.48	.37	.68	.67
IN.							---	.87	.53	.43	.78	.74

02219000 APALACHEE RIVER NEAR BOSTWICK, GA.—Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	98	211	272	281	366	203	166	263	115	52	70	61
2	300	198	282	225	354	193	163	352	108	52	71	120
3	271	197	240	197	337	233	160	251	105	51	68	94
4	172	264	225	183	314	261	157	339	104	48	76	76
5	131	3350	229	176	297	222	156	357	100	45	297	69
6	117	4050	228	205	286	198	153	263	100	45	172	68
7	109	2900	208	253	272	192	148	220	99	45	207	65
8	111	1090	194	236	266	219	144	485	185	45	401	63
9	1290	597	195	285	272	304	139	1560	259	45	227	60
10	1190	436	187	289	271	770	136	888	167	45	170	57
11	663	356	168	231	247	682	142	478	134	43	185	54
12	324	302	164	210	216	460	177	322	121	42	202	52
13	225	271	163	241	221	367	233	287	112	45	173	51
14	187	251	176	301	233	342	225	255	104	45	140	52
15	167	235	199	253	216	343	172	219	97	61	117	53
16	156	249	183	216	204	296	148	204	93	92	300	56
17	145	290	172	318	200	261	139	191	89	110	232	61
18	138	286	197	456	204	236	187	195	85	85	156	58
19	133	250	214	423	213	219	275	236	82	66	122	52
20	128	236	191	868	202	215	221	190	79	57	110	49
21	126	228	173	677	194	208	181	169	82	52	100	47
22	123	230	165	457	188	203	158	156	86	49	93	45
23	122	263	158	340	186	196	149	148	80	46	86	72
24	120	267	158	302	186	191	146	146	76	48	82	53
25	367	24:	257	2380	184	189	160	143	73	66	75	55
26	2180	223	286	4060	181	193	189	136	68	99	72	59
27	1570	213	211	2350	178	197	180	129	65	98	79	58
28	560	218	183	866	185	185	152	130	62	246	85	58
29	351	259	173	539	---	180	141	129	59	142	76	57
30	274	247	207	449	---	175	139	126	55	94	70	56
31	233	---	337	396	---	170	---	123	---	75	65	---
TOTAL	12101	18402	6395	18663	6673	8303	5036	9090	3044	2134	4379	1831
MEAN	390	613	206	602	238	268	168	293	101	68.8	141	61.0
MAX	2180	4050	337	4060	366	770	275	1560	259	246	401	120
MIN	98	197	158	176	178	170	136	123	55	42	65	45
CFSM	2.22	3.48	1.17	3.42	1.35	1.52	.96	1.67	.57	.39	.80	.35
IN.	2.56	3.89	1.35	3.94	1.41	1.75	1.06	1.92	.64	.45	.93	.39

WTR YR 1978 TOTAL 96051 MEAN 263 MAX 4060 MIN 42 CFSM 1.49 IN 20.30

02219500 APALACHEE RIVER NEAR BUCKHEAD, GA.

LOCATION.--Lat 33°36'31", long 83°20'58", Morgan-Greene County line, Hydrologic Unit 03070101, at downstream side of right bank pier of bridge on State Highway 12, 2 mi (3.2 km) downstream from Hard Labor Creek, 3 mi (4.8 km) northeast of Buckhead, and 9 mi (14.5 km) upstream from mouth.

DRAINAGE AREA.--436 mi^2 (1,130 km^2).

PERIOD OF RECORD.--January 1901 to December 1908, April 1937 to September 1978 (discontinued). Monthly discharges only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1503: 1901-3, 1906, 1908-9, 1938(M), 1944-45(M).

GAGE.--Water-stage recorder. Datum of gage is 424.07 ft (129.26 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 31, 1908, nonrecording gage at same site at different datum. May 13, 1937, to Feb. 1, 1939, nonrecording gage at same site and datum.

REMARKS.--Records good. Diurnal fluctuation and slight regulation at times, caused by powerplants above station. Records of chemical analyses for the period November 1969 to May 1972 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--48 years, 579 ft^3/s (16.4 m^3/s), 18.03 in/yr (458.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 28,900 ft^3/s (818 m^3/s) Aug. 25, 1908, gage height, 27.5 ft (8.382 m), datum then in use; minimum daily, 16 ft^3/s (0.45 m^3/s) Oct. 13, 1954.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 5,000 ft^3/s (142 m^3/s) and maximum (*):

Date	Time	Discharge (ft ^{3}/s)	Discharge (m ^{3}/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft ^{3}/s)	Discharge (m ^{3}/s)	Gage height (ft)	Gage height (m)
Nov. 6	1100	8780	249	17.92	5.462	May 10	0530	5390	153	14.98	4.566
Jan. 26	1700	*12200	346	20.88	6.364						

Minimum discharge, 82 ft^3/s (2.32 m^3/s) Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	189	392	499	836	885	544	421	647	251	127	169	128
2	214	359	532	652	843	528	413	1130	234	126	189	126
3	623	345	499	552	809	559	407	836	224	126	166	256
4	458	368	453	492	755	630	401	689	223	125	357	244
5	287	1820	443	460	717	581	394	891	216	123	317	163
6	225	8200	468	477	691	522	389	778	208	115	498	134
7	199	6830	422	599	660	497	379	599	229	115	344	126
8	189	3730	392	614	638	541	369	709	291	115	567	117
9	418	1760	390	634	638	701	359	2930	540	114	669	113
10	1990	1010	408	664	635	1640	351	4810	484	112	456	108
11	1880	765	369	590	617	2000	349	2340	332	116	383	102
12	861	658	350	526	576	1280	409	989	282	110	416	99
13	517	598	348	567	570	935	537	757	258	110	400	98
14	400	566	373	740	613	825	640	664	235	114	342	97
15	342	513	432	740	582	813	498	568	217	123	247	100
16	310	492	428	613	547	740	410	501	205	223	324	105
17	285	513	389	666	531	659	369	458	198	242	428	109
18	267	554	408	1110	528	606	389	428	190	204	372	107
19	255	516	469	1110	543	569	651	448	184	160	315	99
20	244	470	442	1910	533	549	600	447	179	134	263	94
21	234	453	404	2440	508	537	478	385	176	124	230	90
22	227	451	374	1500	494	524	414	352	181	116	204	86
23	222	508	356	977	479	506	382	329	181	122	176	84
24	219	508	353	819	481	489	368	320	170	126	155	142
25	236	492	419	2270	479	478	434	301	159	168	139	147
26	971	451	580	10000	471	490	514	305	158	236	132	123
27	3090	411	500	8350	459	488	481	285	153	215	134	117
28	2460	411	423	3490	475	469	419	273	146	295	150	111
29	811	447	393	1610	---	451	372	278	138	437	165	104
30	557	484	440	1140	---	441	354	275	130	268	149	98
31	451	---	788	977	---	430	---	263	---	196	134	---
TOTAL	19631	35075	13544	48125	16757	21022	12951	24985	6772	5037	8990	3625
MEAN	633	1169	437	1552	598	678	432	806	226	162	290	121
MAX	3090	8200	788	10000	885	2000	651	4810	540	437	669	256
MIN	189	345	348	460	459	430	349	263	130	110	132	84
CFSM	1.45	2.68	1.00	3.56	1.37	1.56	.99	1.85	.52	.37	.67	.28
IN.	1.67	2.99	1.16	4.11	1.43	1.79	1.10	2.13	.58	.43	.77	.31

CAL YR 1977 TOTAL 200917 MEAN 550 MAX 8200 MIN 81 CFSM 1.26 IN 17.14
WTR YR 1978 TOTAL 216514 MEAN 593 MAX 10000 MIN 84 CFSM 1.36 IN 18.47

02220550 WHITTEN CREEK NEAR SPARTA, GA.

LOCATION.--Lat 33°23'13", long 83°01'29", Hancock County, Hydrologic Unit 03070101, in right bank 100 ft (30 m) upstream from bridge on State Highway 15, 5 mi (8.0 km) upstream from mouth, and 8.5 mi (13.7 km) northwest of Sparta.

DRAINAGE AREA.--15 mi^2 (39 km^2), approximately.

PERIOD OF RECORD.--June 1960 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 395 ft (120 m), from topographic map. Prior to Aug. 17, 1963, water-stage recorder at site 100 ft (30 m) downstream at same datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--18 years, 16.8 ft^3/s (0.476 m^3/s), 15.21 in/yr (386.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,770 ft^3/s (107 m^3/s) Feb. 24, 1961, gage height, 16.0 ft (4.88 m), at former site; minimum daily, 0.18 ft^3/s (0.005 m^3/s) Sept. 21, 22, 23, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 600 ft^3/s (17.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 26	0200	*1380	39.1	12.38	3.773	May 9	1315	1300	36.8	12.17	3.709

Minimum daily discharge, 0.18 ft^3/s (0.005 m^3/s) Sept. 21, 22, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	1.8	4.6	7.4	13	7.4	6.6	77	3.4	3.4	.65	.51
2	1.9	1.9	3.8	5.6	13	6.5	6.4	34	3.2	2.0	.58	.44
3	2.4	2.2	3.2	4.4	11	9.8	6.1	17	3.6	1.9	.58	2.5
4	1.5	2.6	3.2	3.8	10	8.5	5.9	31	3.7	1.6	1.6	1.0
5	1.4	35	4.2	3.7	9.6	7.2	5.7	17	3.1	1.4	1.3	.72
6	1.3	12	6.6	3.7	9.1	6.8	5.6	11	3.0	1.4	1.2	.65
7	1.3	5.2	4.0	3.7	8.5	6.9	5.5	9.3	3.1	1.4	1.6	.65
8	1.3	3.7	3.6	4.4	8.3	11	5.3	13	4.2	1.3	1.2	.51
9	1.8	3.4	3.6	8.2	8.2	61	5.2	459	4.9	1.3	.93	.44
10	1.6	3.1	3.6	5.4	7.9	95	5.1	67	3.3	1.3	.93	.37
11	1.4	3.0	3.3	5.4	7.6	39	5.1	25	3.0	1.2	3.2	.37
12	1.4	3.0	3.2	4.6	7.3	29	5.8	16	2.8	1.2	2.2	.37
13	1.4	3.1	3.2	9.5	7.6	24	60	13	2.6	1.2	1.6	.30
14	1.4	3.1	4.0	16	7.6	18	19	10	2.5	1.0	1.1	.30
15	1.4	3.1	5.0	8.0	7.2	15	11	9.4	2.3	2.8	5.8	.30
16	1.4	3.1	3.8	6.4	7.0	12	8.7	8.3	2.2	4.2	5.6	.30
17	1.5	3.4	3.7	14	7.0	11	7.5	7.5	2.1	2.8	2.1	.30
18	1.4	3.2	3.7	16	7.5	10	7.7	7.0	2.0	1.8	1.6	.25
19	1.3	3.0	3.4	85	7.5	9.6	9.0	6.7	2.0	1.4	1.3	.22
20	1.3	3.0	3.4	156	7.0	9.0	7.3	5.8	1.9	1.3	1.0	.20
21	1.3	3.0	3.4	34	6.8	8.5	6.8	5.3	1.7	1.2	1.0	.18
22	1.3	3.1	3.1	19	6.5	8.2	6.2	5.0	1.7	1.0	.93	.18
23	1.3	4.4	3.1	15	6.4	7.8	5.9	4.8	1.6	2.4	.93	.37
24	1.3	3.6	3.1	13	6.4	7.6	5.7	4.7	1.5	1.0	.86	.28
25	1.4	3.2	9.2	565	6.3	7.5	16	4.7	1.3	1.0	.79	.44
26	2.4	3.1	6.2	376	6.1	9.1	20	4.2	1.3	1.0	.72	.37
27	2.1	2.8	4.4	47	5.9	8.4	11	4.0	1.2	.93	.72	.28
28	1.9	3.2	4.0	27	6.4	7.8	8.1	3.9	1.2	1.0	.65	.22
29	1.8	3.1	4.0	20	---	7.3	7.0	3.9	1.0	.93	.72	.20
30	1.8	3.2	8.8	16	---	7.1	6.4	3.7	3.2	.79	.65	.18
31	1.8	---	22	14	---	6.8	---	3.6	---	.72	.58	---
TOTAL	48.4	134.6	148.4	1517.2	222.7	482.8	291.6	891.8	74.6	47.87	44.62	13.40
MEAN	1.56	4.49	4.79	48.9	7.95	15.6	9.72	28.8	2.49	1.54	1.44	.45
MAX	2.4	35	22	565	13	95	60	459	4.9	4.2	5.8	2.5
MIN	1.3	1.8	3.1	3.7	5.9	6.5	5.1	3.6	1.0	.72	.58	.18
CFSM	.10	.30	.32	3.26	.53	1.04	.65	1.92	.17	.10	.10	.03
IN.	.12	.33	.37	3.76	.55	1.20	.72	2.21	.18	.12	.11	.03

CAL YR 1977 TOTAL 3470.70 MEAN 9.51 MAX 311 MIN 1.3 CFSM .63 IN 8.61
WTR YR 1978 TOTAL 3917.99 MEAN 10.7 MAX 565 MIN .18 CFSM .71 IN 9.72

02220900 LITTLE RIVER NEAR EATONTON, GA.

LOCATION.--Lat 33°18'50", long 83°26'14", Putnam County, Hydrologic Unit 03070101, on downstream side of bridge on State Highway 16, 0.9 mi (1.4 km) downstream from Glady Creek, and 3.0 mi (4.8 km) west of Eatonton.

DRAINAGE AREA.--262 mi^2 (679 km^2).

PERIOD OF RECORD.--Water years 1971-77 (annual maximum), August 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 370 ft (113 m), from topographic map.

REMARKS.--Records good except those for periods of doubtful gage-height record, Mar. 8 to May 25, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,600 ft^3/s (357 m^3/s) Mar. 3, 1971, gage height, 24.4 ft (7.44 m); minimum daily, 26 ft^3/s (0.74 m^3/s) Sept. 30, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 26	1900	*6830	193	19.03	5.800

Minimum daily discharge, 26 ft^3/s (0.74 m^3/s) Sept. 30.

ANNUAL PEAK DISCHARGES NOT PREVIOUSLY PUBLISHED.--

Date	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Mar. 3, 1971	12600	357	24.4	7.44
Jan. 11, 1972	9740	276	21.94	6.687
1973 water yr	<7060	<200	unknown	
Apr. 5, 1974	7130	202	19.33	5.892
Mar. 14, 1975	9020	255	21.22	6.468
Mar. 16, 1976	10300	292	22.48	6.852
1977 water yr	<7060	<200	unknown	

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	60	77	122	427	357	203	167	350	111	43	41	43
2	65	76	149	267	332	197	160	980	102	61	36	41
3	70	82	127	207	309	205	158	550	99	50	36	51
4	80	94	115	179	277	215	151	520	99	46	74	124
5	65	552	117	164	257	198	149	408	94	43	89	94
6	56	1080	174	162	245	180	146	300	89	41	114	64
7	53	999	169	197	229	174	141	250	89	40	167	52
8	54	405	124	199	219	270	139	800	118	39	246	46
9	65	241	117	224	221	720	130	2000	170	38	149	43
10	92	190	120	206	220	1100	125	2400	145	38	158	41
11	107	159	113	170	210	1170	124	1000	129	40	129	41
12	77	140	108	159	203	520	162	600	111	40	305	39
13	65	129	106	181	203	400	220	340	104	38	185	39
14	59	122	122	275	216	380	280	260	92	38	116	38
15	57	118	159	246	205	400	175	220	85	47	95	39
16	57	117	144	195	193	320	150	200	78	95	184	40
17	58	118	128	320	189	278	130	170	75	102	124	40
18	57	118	134	524	194	250	170	162	72	75	109	40
19	56	111	144	646	197	230	248	160	67	56	93	38
20	55	107	135	1530	187	222	220	151	66	44	81	35
21	55	105	127	1300	178	211	180	136	68	39	66	32
22	54	106	115	682	173	205	147	130	65	36	60	29
23	55	123	108	406	167	200	128	130	62	34	58	28
24	56	143	108	329	168	190	140	130	58	36	56	27
25	68	126	294	3040	166	197	180	129	55	45	50	28
26	190	115	273	6480	164	206	320	128	52	49	49	28
27	236	104	178	4590	159	200	270	119	51	60	56	30
28	143	101	147	1130	163	187	200	116	49	66	64	30
29	102	105	133	649	---	180	178	150	46	76	56	29
30	89	110	201	486	---	178	150	137	44	63	50	26
31	81	---	601	409	---	170	---	124	---	48	46	---
TOTAL	2437	6173	4912	25979	6001	9756	5238	13250	2545	1566	3142	1275
MEAN	78.6	206	158	838	214	315	175	427	84.8	50.5	101	42.5
MAX	236	1080	601	6480	357	1170	320	2400	170	102	305	124
MIN	53	76	106	159	159	170	124	116	44	34	36	26
CFSM	.30	.79	.60	3.20	.82	1.20	.67	1.63	.32	.19	.39	.16
IN.	.35	.88	.70	3.69	.85	1.39	.74	1.88	.36	.22	.45	.18

WTR YR 1978 TOTAL 82274 MEAN 225 MAX 6480 MIN 26 CFSM .86 IN 11.68

02221525 MURDER CREEK BELOW EATONTON, GA.

LOCATION.--Lat 33°15'08", long 83°28'53", Putnam County, Hydrologic Unit 03070101, in left bank 250 ft (76 m) upstream from bridge on county road S-777, 3.0 mi (4.8 km) downstream from Beaverdam Creek, 5.8 mi (9.3 km) upstream from mouth, and 7.5 mi (12.1 km) southwest of Eatonton.

DRAINAGE AREA.--190 mi^2 (492 km^2).

PERIOD OF RECORD.--April 1977 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 375 ft (114 m), from topographic map.

REMARKS.--Records good except those for periods of no gage-height record, Nov. 14 to Jan. 25, which are fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,910 ft^3/s (139 m^3/s) Jan. 26, 1978, gage height, 7.68 ft (2.341 m); minimum discharge, 24 ft^3/s (0.68 m^3/s) Sept. 30, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,800 ft^3/s (51.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 26	2245	*4910	139	7.68	2.341	May 10	1245	3410	96.6	6.01	1.832

Minimum daily discharge, 24 ft^3/s (0.68 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1976 TO SEPTEMBER 1977
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	160	77	77	64	38
2							---	148	73	239	56	35
3							---	132	68	153	163	33
4							---	124	64	82	539	35
5							---	117	62	67	189	40
6							---	110	61	62	108	50
7							---	105	58	57	77	56
8							---	102	59	52	65	64
9							---	101	55	49	230	72
10							---	94	53	49	140	66
11							---	89	50	46	63	60
12							---	88	57	42	54	52
13							---	87	71	41	49	47
14							---	84	56	45	46	42
15							---	82	53	42	45	42
16							---	80	57	39	44	52
17							---	78	80	36	55	58
18							---	75	105	35	65	54
19							---	74	90	38	64	54
20							---	78	68	43	60	54
21							---	102	59	37	55	53
22							---	87	55	34	50	48
23							---	80	63	32	47	44
24							---	88	62	36	45	43
25							---	120	51	34	41	43
26							---	115	50	31	80	42
27							125	126	49	34	70	41
28							122	115	48	41	60	44
29							122	102	47	73	54	46
30							170	88	46	138	46	43
31							---	81	---	94	42	---
TOTAL							---	3112	1846	1878	2758	1451
MEAN							---	100	61.5	60.6	89.0	48.4
MAX							---	160	105	239	539	72
MIN							---	74	46	31	41	33
CFSM							---	.53	.32	.32	.47	.26
IN.							---	.61	.36	.37	.54	.28

02221525 MURDER CREEK BELOW EATONTON, GA.--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	59	83	300	222	144	121	633	76	40	35	38
2	48	59	80	180	214	127	119	1080	71	45	33	35
3	43	62	68	130	199	156	118	506	70	40	39	58
4	40	65	68	120	177	169	115	557	76	38	63	89
5	38	103	90	108	166	135	112	380	71	36	93	55
6	37	540	110	112	157	124	112	238	67	34	81	44
7	36	210	100	129	147	120	106	199	72	33	80	40
8	37	133	80	137	142	169	104	330	84	32	101	38
9	44	104	68	140	142	319	102	864	110	32	90	36
10	62	90	69	120	142	1220	101	2610	95	30	97	33
11	49	80	72	110	134	1270	98	1140	82	31	78	31
12	45	74	85	109	128	517	108	372	74	29	145	35
13	43	70	100	120	129	338	175	260	72	29	132	31
14	42	65	130	170	134	326	210	201	71	30	85	31
15	42	64	144	150	125	349	132	161	63	31	65	34
16	43	64	130	130	120	251	112	144	59	82	65	37
17	46	64	100	250	120	206	103	129	57	64	59	34
18	44	64	100	477	126	181	116	117	55	50	61	31
19	42	62	90	700	133	168	211	113	53	40	56	29
20	42	60	78	960	121	162	149	104	51	37	54	30
21	41	60	68	700	115	157	116	97	50	34	49	30
22	42	62	64	480	110	157	105	92	55	31	47	27
23	43	64	70	270	107	150	100	87	52	31	83	27
24	42	66	110	220	108	143	100	95	48	30	60	25
25	50	64	190	1000	106	142	153	91	44	37	50	27
26	126	60	150	4690	106	155	359	87	43	51	46	29
27	98	58	120	3390	105	150	194	81	43	55	57	28
28	69	60	96	925	109	134	144	79	41	53	51	26
29	63	64	88	446	---	129	121	95	39	55	46	25
30	61	70	140	306	---	126	109	94	37	44	42	24
31	61	---	390	251	---	123	---	83	---	38	40	---
TOTAL	1565	2720	3331	17330	3844	8017	4025	11119	1881	1242	2083	1057
MEAN	50.5	90.7	107	559	137	259	134	359	62.7	40.1	67.2	35.2
MAX	126	540	390	4690	222	1270	359	2610	110	82	145	89
MIN	36	58	64	108	105	120	98	79	37	29	33	24
CFSM	.27	.48	.56	2.94	.72	1.36	.71	1.89	.33	.21	.35	.19
IN.	.31	.53	.65	3.39	.75	1.57	.79	2.18	.37	.24	.41	.21

WTR YR 1978 TOTAL 58214 MEAN 159 MAX 4690 MIN 24 CFSM .84 IN 11.40

02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.

LOCATION.--Lat 33°04'58", long 83°12'51", Baldwin County, Hydrologic Unit 03070101, at right bank on city of Milledgeville water works intake structure at Milledgeville, 0.5 mi (0.8 km) upstream from bridge on State Highway 24, 3.8 mi (6.1 km) downstream from Sinclair Dam of Georgia Power Co., and at mile 139.1 (223.8 km).
DRAINAGE AREA.--2,950 mi^2 (7,640 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1903 to current year. Monthly discharge only for some periods, published in WSP 1304.
REVISED RECORDS.--WSP 1142: 1928(M). WSP 1504: 1903-4, 1908, 1912-13, 1914(M), 1915-17. WSP 1554: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 230.84 ft (70.36 m) National Geodetic Vertical Datum of 1929. Prior to May 23, 1906, Jan. 1 to Oct. 5, 1909, Jan. 1, 1932 to Sept. 30, 1939, nonrecording gages at site 0.5 mi (0.8 km) downstream, and Oct. 1, 1939, to Mar. 8, 1966, water-stage recorder 0.3 mi (0.5 km) downstream, all at present datum. May 23, 1906 to Dec. 31, 1908 and Oct. 6, 1909, to Dec. 31, 1931, nonrecording gages at Fraleys Ferry, 6.8 mi (10.9 km) upstream at different datum.
REMARKS.--Records good. Flow regulated by Sinclair Reservoir since November 1952. (See "Lakes and Reservoirs in Altamaha River Basin," station 02225000.)
AVERAGE DISCHARGE.--75 years, 3,373 ft^3/s (95.5 m^3/s), 15.53 in/yr (394.5 mm/yr), adjusted.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 122,000 ft^3/s (3,460 m^3/s) Feb. 25, 1961, gage height, 42.9 ft (13.08 m), from rating curve extended above 77,000 ft^3/s (2,180 m^3/s); minimum daily, 90 ft^3/s (2.55 m^3/s) for several days in August and September 1925 and on Aug. 3, 1955.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 46.7 ft (14.23 m) in 1886 at site 0.5 mi (0.8 km) downstream at present datum, from information by Georgia Department of Transportation.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 52,100 ft^3/s (1,475 m^3/s) Jan. 26, gage height, 32.53 ft (9.915 m); minimum daily, 240 ft^3/s (6.80 m^3/s) July 4, 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3510	2020	3050	1930	7410	4330	593	5160	2310	339	1940	372
2	881	4440	4310	4130	7860	4320	501	7640	430	248	431	387
3	528	6380	1830	3740	7750	4650	1750	7570	2640	243	1460	410
4	454	6370	443	2240	7640	2590	1770	7530	357	240	2240	398
5	921	7420	4090	2560	7610	526	2100	6130	1700	240	452	1260
6	1460	9520	4270	2050	7600	1520	1460	5400	1920	245	463	428
7	1550	15600	4630	2080	6780	4300	2490	2630	350	241	3900	2290
8	563	18600	3130	3390	4210	4110	463	6420	3790	242	1780	602
9	587	18700	2220	4130	4380	4490	324	7860	4260	243	4350	865
10	3690	11700	2740	4230	4520	4690	3600	20400	1770	1270	6630	440
11	3830	7650	574	4220	3650	6250	1890	17700	358	1410	2220	576
12	4160	6910	2620	1930	2190	5700	1010	7820	299	427	2970	396
13	6220	4220	2920	4480	2250	6510	4540	4180	2010	408	300	396
14	4390	4470	2900	4400	4190	7010	4000	1660	1780	403	2280	568
15	1860	4420	2520	4350	4200	6480	810	4430	370	413	1800	415
16	1440	4500	2620	3490	4260	5510	485	2890	278	431	1640	406
17	2730	4430	1780	4320	2880	3270	2800	1700	286	436	3160	466
18	3040	4380	510	4190	1160	3350	4300	2740	284	425	2970	1160
19	3580	2630	2490	4940	3310	4000	4400	2990	906	1010	416	1160
20	1710	3260	1600	7940	3800	2830	2210	1950	2910	2410	416	805
21	2560	4040	3900	7940	2720	3300	2300	2410	1210	410	2460	440
22	485	3360	1440	7860	4310	1470	1320	3950	3280	406	2150	417
23	495	3650	1920	7820	3280	4180	443	467	2120	403	1890	455
24	2020	2730	444	7790	2660	3770	2330	1970	451	2060	2070	458
25	4680	1330	2720	18200	807	1020	3720	3530	440	1840	1180	457
26	6430	2270	3560	50200	529	1120	2540	2470	2460	459	1230	430
27	5820	1200	3460	36800	2440	2550	2900	358	1040	2510	419	404
28	6430	4340	2480	27500	4420	2140	1910	310	2150	702	823	438
29	6450	4250	2540	16400	---	2360	1410	1940	572	431	1210	468
30	4610	3170	4230	12100	---	3650	1790	2330	1690	611	398	459
31	2350	---	547	7900	---	1650	---	1580	---	429	1140	---
TOTAL	89434	177960	78488	275250	118816	113646	62159	146115	44421	21585	56788	18226
MEAN	2885	5932	2532	8879	4243	3666	2072	4713	1481	696	1832	608
MAX	6450	18700	4630	50200	7860	7010	4540	20400	4260	2510	6630	2290
MIN	454	1200	443	1930	529	526	324	310	278	240	300	372
MEAN†	2680	5591	2574	9611	3121	4349	2514	4591	1355	769	1530	537
CFSM†	0.91	1.90	0.87	3.26	1.06	1.47	0.85	1.56	0.46	0.26	0.52	0.18
IN†	1.03	2.12	1.00	3.76	1.10	1.70	0.95	1.80	0.51	0.30	0.60	0.20

CAL YR 1977 TOTAL 1155352 MEAN 3165 MAX 18700 MIN 240 MEAN† 3142 CFSM† 1.07 IN† 14.52
WTR YR 1978 TOTAL 1202888 MEAN 3296 MAX 50200 MIN 240 MEAN† 3278 CFSM† 1.11 IN† 15.07

† Adjusted for change in contents in Sinclair Reservoir.

02223000 OCONEE RIVER AT MILLEDGEVILLE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 11...	1400	6370	7.2	28.0	23.0	5.8
NOV 15...	1445	6370	7.0	19.0	17.0	8.9
DEC 13...	1500	6250	7.0	20.5	12.0	8.1
JAN 10...	1330	6300	7.1	-3.3	8.0	--
FEB 07...	1340	6670	6.7	1.0	5.0	--
MAR 14...	1400	7600	6.9	23.0	12.0	10.2
APR 10...	1335	6140	7.1	32.0	16.0	9.4
MAY 16...	1345	2830	7.0	22.0	21.5	6.0
JUN 14...	0815	298	6.6	23.0	21.5	5.6
JUL 13...	0945	400	7.0	27.5	23.0	8.0
AUG 15...	1320	410	6.9	31.5	28.0	3.7
SEP 14...	0815	390	6.6	25.0	26.0	6.3

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, FC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 11...	71	10	.7	135	<35	--	.12	.12	.02	180	155	3.0
NOV 15...	53	70	.8	430	--	--	.21	.08	.08	2600	130	9.0
DEC 13...	55	50	.6	70	--	--	.35	<.02	.05	1820	110	4.0
JAN 10...	65	23	.7	430	<30	--	.37	<.02	.04	1100	70	4.0
FEB 07...	38	180	.4	4300	40	--	.29	.13	.15	7500	175	4.0
MAR 14...	55	54	.7	2300	70	--	.46	.06	.07	3940	250	<1.0
APR 10...	56	31	.5	9300	<30	--	.41	.08	.03	1550	<50	3.5
MAY 16...	59	60	.6	430	40	--	.24	.02	.05	920	140	4.0
JUN 14...	58	44	.5	9300	40	--	.35	.06	.04	1850	285	3.0
JUL 13...	64	29	.9	4300	90	23	.22	.09	<.02	1440	530	2.0
AUG 15...	76	50	.8	230	40	28	.08	.20	<.02	1500	960	2.0
SEP 14...	59	44	.4	430	150	23	.19	.08	.05	1530	370	3.0

02223040 OCONEE RIVER NEAR HARDWICK, GA.

LOCATION.--Lat 33°01'45", long 83°11'24", Baldwin County, Hydrologic Unit 03070102, on right bank 1 mi (1.6 km) downstream from Camp Creek, and 3 mi (4.8 km) southeast of Hardwick.

PERIOD OF RECORD.—July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02222500.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
11...	1445	6400	7.3	28.0	23.2	6.2
NOV						
15...	1545	6400	6.8	19.0	17.0	10.2
DEC						
13...	1550	6250	6.9	22.5	12.5	8.3
JAN						
10...	1430	6300	7.0	-2.2	8.5	10.5
FEB						
07...	1250	7040	6.7	.0	5.0	--
MAR						
14...	1500	7600	7.3	22.0	11.0	10.2
APR						
10...	1430	6180	7.2	30.0	16.5	9.1
MAY						
16...	1430	2320	6.9	22.0	21.0	6.8
JUN						
14...	1015	286	6.6	24.5	23.0	4.4
JUL						
13...	1045	400	6.9	29.0	25.0	7.6
AUG						
15...	1230	405	6.9	28.0	27.5	4.4
SEP						
14...	0910	390	6.7	25.5	26.0	6.0

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
11...	70	11	.7	230	--	.16	.08	.03	3.0
NOV									
15...	52	64	.4	430	--	.22	.08	.09	9.0
DEC									
13...	56	50	.6	<30	--	.35	<.02	.07	4.0
JAN									
10...	65	24	.6	930	--	.38	.02	.05	5.0
FEB									
07...	39	180	.9	<30	--	.30	.15	.20	4.0
MAR									
14...	54	60	1.0	2300	--	.44	.06	.08	3.0
APR									
10...	58	31	.7	750	--	.41	.14	.04	4.0
MAY									
16...	59	52	.7	4300	--	.25	.02	.07	5.0
JUN									
14...	64	90	1.4	430	--	.36	.11	.08	4.0
JUL									
13...	70	28	.9	430	24	.25	.11	.08	1.5
AUG									
15...	83	54	1.6	4300	29	.14	.20	.08	4.0
SEP									
14...	67	40	1.1	23000	25	.25	.19	.12	3.0

02223500 OCONEE RIVER AT DUBLIN, GA.

LOCATION.--Lat 32°32'40", long 82°53'41", Laurens County, Hydrologic Unit 03070102, near left bank on downstream end of pier of bridge on U.S. Highway 80 at Dublin, and at mile 74.3 (119.5 km).

DRAINAGE AREA.--4,400 mi^2 (11,400 km^2), approximately.

PERIOD OF RECORD.--January 1894 to September 1897 (gage heights only), October 1897 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1893 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area. WSP 1504: 1898-1903, 1905-6, 1908-9, 1912, 1913(M), 1925(M).

GAGE.--Water-stage recorder. Datum of gage is 149.08 ft (45.44 m) National Geodetic Vertical Datum of 1929. Prior to Apr. 14, 1932, nonrecording gage and Apr. 15, 1932, to June 17, 1934, water-stage recorder at site 420 ft (128 m) downstream at datum 3.0 ft (0.91 m) higher, Oct. 1, 1933, to July 17, 1934 corrected to present datum. July 18, 1934, to Apr. 14, 1936, water-stage recorder, Apr. 15, 1936, to Oct. 12, 1938, nonrecording gage, and Oct. 13, 1938, to Jan. 20, 1953, water-stage recorder at site 80 ft (24 m) upstream at present datum.

REMARKS.--Records good. Flow regulated by Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02222500.) Records of chemical analyses for the water years 1968-73 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--81 years (1897-1978), 5,077 ft^3/s (144 m^3/s), 15.67 in/yr (398.0 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,700 ft^3/s (2,770 m^3/s) Apr. 12, 13, 1936, gage height, 32.97 ft (10.049 m); minimum, 333 ft^3/s (9.43 m^3/s) Sept. 12, 1951, gage height, 0.48 ft (0.146 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, that of Apr. 12, 13, 1936.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 45,400 ft^3/s (1,290 m^3/s) Jan. 30, gage height, 27.0 ft (8.230 m); minimum daily, 543 ft^3/s (15.4 m^3/s) July 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	951	3570	4600	5150	32200	4690	4140	2350	2300	1080	774	895
2	1380	2350	4020	3490	26700	6220	2800	4680	2020	1580	740	1060
3	2320	3400	4210	4290	21600	6040	1870	7690	2180	895	1540	722
4	1220	5530	4300	5580	17600	4870	1910	9180	1490	728	943	662
5	912	7330	2390	4510	14900	4430	2540	10100	2240	646	1600	655
6	805	8440	3220	3700	13200	4600	2830	10400	1190	609	1960	643
7	988	9030	5430	3650	12100	3110	2720	9600	1960	594	1030	1090
8	1630	9660	5630	3120	11300	4090	2550	6710	1970	568	1850	1060
9	1360	10400	5060	3780	10100	6040	2510	7550	2100	543	2650	1580
10	970	11300	3990	4880	8850	7800	1470	8880	4260	552	2750	901
11	1800	12700	3360	5450	7700	9070	2160	9630	3050	571	5830	928
12	3230	15100	2790	5420	6670	9840	3380	10700	2110	1090	4230	747
13	3750	16300	2150	5120	5500	10300	3090	12500	1180	1290	3160	708
14	5450	15000	3770	5110	4000	10400	5740	15200	1040	824	2860	667
15	4850	10800	3960	6520	5140	10500	7740	14600	2000	675	1730	748
16	3270	6740	3850	6280	5860	10600	7370	8900	1850	699	2630	952
17	2150	5530	3460	6190	6040	9840	4610	5550	964	860	2370	834
18	2030	5440	3530	5840	5140	7900	3750	3430	753	896	2680	763
19	2730	5260	2550	6910	4340	5860	5110	3240	682	817	3400	803
20	3120	4360	2410	9200	4260	5590	6680	3560	644	760	2370	1170
21	2990	3520	3020	10700	5860	5500	4520	2860	1320	1340	1060	1200
22	2380	4350	3800	11500	5500	4430	3610	2700	2360	1720	1300	1010
23	1740	4430	3750	12000	4690	3510	2820	3690	1760	852	1940	795
24	998	4330	2590	12400	5680	4000	2340	3040	2840	688	2130	705
25	1210	4240	2480	12900	5050	5430	2050	1470	1880	687	2120	692
26	2670	3010	2260	15800	3750	4320	3620	3050	962	1680	1790	677
27	5470	2190	4020	18500	2630	2940	3910	3090	982	1760	1550	658
28	5920	2820	4370	35700	2500	3540	3380	2490	1890	1220	1190	638
29	6040	2900	4160	42400	---	4010	3340	1200	1510	1860	824	614
30	6280	4670	3740	44400	---	3870	2460	1070	1780	1050	987	621
31	5420	---	5260	39300	---	4180	---	2130	---	776	1190	---
TOTAL	86034	204700	114130	359790	258860	187520	107020	191240	53267	29910	63178	25198
MEAN	2775	6823	3682	11610	9245	6049	3567	6169	1776	965	2038	840
MAX	6280	16300	5630	44400	32200	10600	7740	15200	4260	1860	5830	1580
MIN	805	2190	2150	3120	2500	2940	1470	1070	644	543	740	614

CAL YR 1977 TOTAL 1689955 MEAN 4630 MAX 26900 MIN 518 MEAN† 4607 CFSM† 1.05 IN† 14.25
WTR YR 1978 TOTAL 1680847 MEAN 4605 MAX 44400 MIN 543 MEAN† 4587 CFSM† 1.04 IN† 14.12

† Adjusted for change in contents in Sinclair Reservoir.

02223600 OCONEE RIVER AT I-16, NEAR DUBLIN, GA.

LOCATION.--Lat 32°29'05", long 82°51'45", Laurens County, Hydrologic Unit 03070102, at Interstate Highway 16, 4.0 mi (6.4 km) upstream from Pughes Creek, 4.5 mi (7.2 km) southeast of Dublin, and at mile 69.9 (112.5 km).

DRAINAGE AREA.--4,400 mi^2 (11,400 km^2), approximately.

PERIOD OF RECORD.--October 1973 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Sinclair Reservoir. (See "Lakes and Reservoirs in Altamaha River Basin", station 02222500.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT						
03...	1345	2150	7.3	23.0	24.5	6.9
31...	1200	5220	7.3	21.0	18.0	7.8
DEC						
05...	1245	2220	7.0	22.0	14.0	8.4
FEB						
06...	1330	13100	6.6	-1.0	3.0	11.0
MAR						
06...	1310	4460	6.9	15.5	6.5	10.2
MAY						
01...	1130	2360	7.2	16.5	17.5	7.3
JUN						
05...	1225	2300	7.2	29.0	24.5	8.1
JUL						
10...	1250	566	7.5	30.0	28.5	7.6
AUG						
07...	1135	1010	6.8	31.0	26.5	6.7
SEP						
05...	1115	653	7.2	34.0	26.5	6.5

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)
OCT						
03...	80	50	28	16	.7	430
31...	77	--	29	--	.5	930
DEC						
05...	69	130	60	19	1.5	43000
FEB						
06...	45	280	160	19	1.2	95
MAR						
06...	62	125	50	15	1.4	1500
MAY						
01...	80	45	23	24	1.6	1500
JUN						
05...	73	75	78	13	1.6	4300
JUL						
10...	123	40	14	--	2.4	40
AUG						
07...	98	90	38	--	--	--
SEP						
05...	120	90	29	--	.8	15000

02223600 OCONEE RIVER AT I-16, NEAR DUBLIN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALKALINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
03...	--	33	.28	.08	.29	.07	5.0
31...	--	--	.27	.03	--	.08	4.0
DEC							
05...	--	28	.29	.24	.75	.12	6.0
FEB							
06...	--	45	.24	.04	<.10	.20	5.0
MAR							
06...	--	18	.33	.07	.30	.15	5.0
MAY							
01...	--	18	.27	<.02	.21	.11	5.0
JUN							
05...	--	63	.51	.03	.30	.15	6.0
JUL							
10...	31	11	.25	.05	--	.11	6.0
AUG							
07...	26	20	.26	.10	--	.15	9.0
SEP							
05...	29	6	.39	.12	--	.11	3.0

02224000 ROCKY CREEK NEAR DUDLEY, GA.

WATER-QUALITY RECORDS

LOCATION.--Lat 32°29'38", long 83°08'49", Laurens County, Hydrologic Unit 03070102, on downstream side of highway bridge, 3.2 mi (5.1 km) upstream from Buckhorn Branch, and 5 mi (8.0 km) southwest of Dudley.
DRAINAGE AREA.--62.9 mi^2 (163 km^2).
PERIOD OF RECORD.--November 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
JUN 13...	0900	26	7.1	24.0	7.4
SEP 06...	0900	5.5	6.3	24.5	5.6

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
JUN 13...	70	45	30	7	10	1.2	2.9	1.0	28	0	23	2.2
SEP 06...	103	25	45	7	16	1.3	3.3	1.6	47	0	39	2.1

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
JUN 13...	4.6	.1	8.0	65	.30	1.3	.00	.00	.31	.30	.04	.04
SEP 06...	6.0	.1	7.3	78	.47	2.1	.01	.03	.46	.46	.02	.02

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
JUN 13...	.05	.41	.33	.45	.08	.37	.76	3.4	.07	.02	.03	.01
SEP 06...	.03	.56	.39	.58	.17	.41	1.0	4.6	.05	.03	.02	.02

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)
JUN 13...	.03	40	2	1	7	1500	90	<.5	0	10	9.1	4.8
SEP 06...	.06	20	1	0	1	380	120	<.5	0	10	6.4	5.9

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.

LOCATION.--Lat 31°56'20", long 82°21'25", Appling-Toombs County line, Hydrologic Unit 03070106, on right bank 400 ft (122 m) downstream from bridge on U.S. Highway 1, 2.2 mi (3.5 km) upstream from Bay Creek, 8 mi (12.9 km) downstream from Bullards Creek, and 12 mi (19.3 km) north of Baxley.
DRAINAGE AREA.--11,600 mi^2 (30,000 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1949 to June 1951, October 1970 to current year.
GAGE.--Water-stage recorder. Datum of gage is 61.51 ft (18.75 m) National Geodetic Vertical Datum of 1929. Aug. 13, 1949, to June 30, 1951, nonrecording gage at site 400 ft (122 m) upstream at same datum.
REMARKS.--Records fair.
AVERAGE DISCHARGE.--9 years (1949-50, 1971-78), 12,610 ft^3/s (357 m^3/s), 14.76 in/yr (374.9 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,500 ft^3/s (2,760 m^3/s) Mar. 12, 1971, gage height, 22.7 ft (6.92 m); minimum daily, 2,100 ft^3/s (59.5 m^3/s) Oct. 9-12, 1970.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 10, 1948, reached a stage of 25.1 ft (7.65 m), from floodmark, discharge, 130,000 ft^3/s (3,680 m^3/s).

Flood of January 1925 reached a stage of 30.0 ft (9.14 m), from information furnished by Georgia Department of Transportation.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 73,000 ft^3/s (2,070 m^3/s) Feb. 5, gage height, 20.65 ft (6.294 m); minimum daily, 2,400 ft^3/s (68.0 m^3/s) Sept. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4080	7580	6510	9360	50200	11700	11600	9020	6800	3900	3800	3530
2	4250	7540	7270	9900	57600	11500	11400	8330	6330	4200	3560	3510
3	4080	7650	8050	10400	64800	12300	11200	7970	5850	4200	3580	3430
4	3750	7600	8050	11000	70500	13100	10200	9100	6300	4200	3730	3410
5	3830	7800	8050	10800	72600	13900	9150	11500	6700	4200	4090	3280
6	4000	9200	8290	10800	69900	14500	8530	13500	6800	3900	4220	3020
7	4000	9910	8400	10600	63500	14800	8330	14600	6700	3800	4230	2860
8	4000	9910	8050	10900	56200	14000	8040	15500	6600	3700	4650	2770
9	3850	10700	8670	11000	50100	14300	7690	16300	6500	3600	4560	2830
10	3080	11500	9000	11100	44900	15000	7390	17400	7180	3600	4830	2960
11	3420	12200	9730	11600	39800	16800	7230	18700	6900	3200	5990	3240
12	3420	12200	9470	12000	34500	18100	6640	19800	6700	3200	7050	3100
13	3250	12800	8800	12400	29700	18900	6610	20600	7600	3100	8580	2840
14	3830	12700	7900	13000	25500	19700	7880	21500	7200	3000	9110	2730
15	3830	14800	7310	13300	22000	20900	9180	22700	6450	3050	8340	2530
16	6000	14800	7950	13900	19500	22300	10500	24200	6000	3450	7760	2430
17	6700	17100	8440	14100	17600	23600	11400	25900	5900	4170	7080	2400
18	6400	17100	8520	14200	16800	24400	12700	27400	5600	4340	7180	2450
19	6400	18600	8320	14700	16700	24900	13200	27900	5300	4270	7300	2590
20	5800	17400	8200	16200	16900	25200	12700	26200	4900	4420	7470	2700
21	5100	13000	7910	18200	16800	25500	12900	22300	5100	4320	8050	2790
22	5400	12300	8120	19600	15900	24700	13600	19800	5520	4130	7980	2930
23	5300	9870	7700	20300	15400	23100	13700	18600	4000	3980	6980	3120
24	5100	9870	8000	21000	15400	21400	12800	17200	4000	4200	5920	3090
25	5100	8400	8000	21900	15100	19600	11700	17000	4200	3810	5540	2920
26	4440	8400	8000	25100	14600	18000	10700	15200	4600	3360	5280	2720
27	4440	7940	8000	31700	14000	16800	9920	14500	5000	3140	5050	2600
28	3750	7940	7800	37100	12900	15500	10200	9680	5000	3350	4800	2540
29	3750	7100	8000	40400	---	13600	10500	8400	5000	3740	4420	2500
30	5900	6650	8400	42300	---	12400	9800	8400	3900	3610	4230	2490
31	7060	---	8720	44800	---	12000	---	7310	---	3860	3790	---
TOTAL	143310	330560	253630	563660	959400	552500	307390	516510	174630	117000	179150	86310
MEAN	4623	11020	8182	18180	34260	17820	10250	16660	5821	3774	5779	2877
MAX	7060	18600	9730	44800	72600	25500	13700	27900	7600	4420	9110	3530
MIN	3080	6650	6510	9360	12900	11500	6610	7310	3900	3000	3560	2400
CFSM	.40	.95	.71	1.57	2.95	1.54	.88	1.44	.50	.33	.50	.25
IN.	.46	1.06	.81	1.81	3.08	1.77	.99	1.66	.56	.38	.57	.28

CAL YR 1977 TOTAL 4067140 MEAN 11140 MAX 45100 MIN 2400 CFSM .96 IN 13.04
WTR YR 1978 TOTAL 4184050 MEAN 11460 MAX 72600 MIN 2400 CFSM .99 IN 13.42

02225000 ALTAMAHA RIVER NEAR BAXLEY, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1970 to current year.
PERIOD OF DAILY RECORD.--
CHLORIDE: May 1970 to August 1975.
SPECIFIC CONDUCTANCE: June 1971 to September 1976.
pH: October 1971 to September 1976.
WATER TEMPERATURES: December 1970 to September 1976.
DISSOLVED OXYGEN: May 1971 to September 1976.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 04...	0900	3750	7.4	15.0	22.0	7.9
NOV 01...	1330	7580	7.5	22.0	19.0	7.7
DEC 06...	1000	8460	7.2	10.0	13.5	9.1
JAN 11...	1300	11700	7.2	-1.0	8.5	9.8
FEB 07...	1500	62700	6.4	2.0	4.0	9.9
MAR 07...	0930	14800	6.7	10.0	7.0	9.7
APR 03...	1120	11200	7.1	26.0	18.5	6.7
MAY 02...	1230	8370	7.1	23.5	19.0	7.8
JUN 06...	0930	6710	7.1	27.0	26.0	6.3
JUL 11...	1115	3258	7.7	30.0	31.0	7.2
AUG 08...	1045	4610	7.6	28.5	28.0	7.2
SEP 06...	1300	3000	7.5	28.0	28.0	6.5

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 04...	111	15	11	.5	<30	--	.40	<.02	.06	4.0
NOV 01...	90	50	26	.3	230	--	.42	<.02	.08	3.0
DEC 06...	80	70	76	1.1	975	--	.34	<.02	.18	7.0
JAN 11...	72	65	7	.8	430	--	.30	<.02	.07	8.0
FEB 07...	40	200	78	--	<30	--	.20	<.02	.10	4.0
MAR 07...	64	105	32	.6	230	--	.28	.02	.07	5.0
APR 03...	80	75	20	.9	90	--	.28	.02	.06	1.5
MAY 02...	84	40	25	.5	30	--	.43	<.02	.12	4.0
JUN 06...	89	90	26	--	--	--	.45	<.02	.07	3.0
JUL 11...	122	20	14	1.5	40	40	.27	.02	.05	2.0
AUG 08...	104	35	16	1.7	<30	34	.08	<.02	.16	5.0
SEP 06...	130	40	60	1.0	<30	40	.55	.05	.16	6.0

02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.

LOCATION.--Lat 32°04'42", long 82°10'39", Tattnall County, Hydrologic Unit 03070107, on downstream side of pier near center of span of bridge on State Highway 56, 0.5 mi (0.8 km) downstream from Brazells Creek, 1.5 mi (2.4 km) downstream from Rocky Creek, 3.5 mi (5.6 km) west of Reidsville, 6 mi (9.7 km) downstream from Pendleton Creek, and 14 mi (22 km) upstream from mouth.

DRAINAGE AREA.—1,110 mi^2 (2,870 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1903 to December 1907, April 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 822: Drainage area. WSP 892: 1939(M). WSP 1504: 1905.

GAGE.--Water-stage recorder. Datum of gage is 73.8 ft (22.49 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Feb. 15, 1941, nonrecording gage at same site, at different datum June 13, 1903, to Dec. 31, 1907, and at same datum May 25, 1937, to Feb. 15, 1941.

REMARKS.--Records fair except those of no gage-height record, Dec. 1 to Jan. 11, which are poor.

AVERAGE DISCHARGE.--45 years, 996 ft^3/s (28.2 m^3/s), 12.19 in/yr (309.6 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,400 ft^3/s (691 m^3/s) Mar. 6, 1966, gage height, 23.34 ft (7.114 m); minimum daily, 19 ft^3/s (0.54 m^3/s) Sept. 12, 13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, 28.4 ft (8.66 m) in January 1925, from information furnished by Georgia Department of Transportation; discharge, 47,000 ft^3/s (1,330 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 12,000 ft^3/s (339.8 m^3/s) Jan. 29, gage height, 18.59 ft (5.666 m); minimum, 35 ft^3/s (0.99 m^3/s) Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	59	178	610	7280	1650	1100	514	230	85	78	86
2	133	57	205	660	5480	1710	1020	499	204	84	70	81
3	137	55	205	710	4750	1780	942	473	217	93	67	76
4	141	53	195	770	4430	1870	876	626	286	93	254	72
5	139	94	200	830	4240	1940	816	949	267	87	193	66
6	130	135	210	860	4200	1930	758	1080	291	83	161	62
7	121	150	220	1000	4080	1880	697	1100	298	75	161	60
8	114	158	240	1100	3840	1910	639	1180	287	81	162	60
9	108	174	280	1250	3550	2100	584	1300	415	98	195	56
10	99	210	300	1450	3240	2320	536	1600	400	89	185	165
11	91	236	340	1520	2930	2480	495	1750	400	100	191	55
12	87	228	360	1490	2670	2580	462	1670	430	78	230	51
13	87	196	383	1540	2490	2650	518	1600	380	67	322	49
14	82	169	389	1760	2390	2780	881	1550	330	63	333	46
15	79	151	390	1950	2290	3010	1160	1360	280	62	262	44
16	76	138	395	2040	2210	3130	1260	1160	230	94	205	43
17	74	129	400	2110	2180	3040	1290	996	200	313	180	44
18	72	121	400	2240	2210	2820	1250	922	160	611	173	43
19	71	114	400	2440	2270	2570	1220	942	140	546	172	42
20	68	108	400	2950	2270	2350	1240	927	110	277	158	41
21	64	104	400	3570	2270	2170	1120	886	100	178	156	40
22	61	101	400	4130	2270	1990	1020	816	93	152	143	38
23	58	100	400	4480	2260	1820	939	667	89	136	125	38
24	56	98	400	4620	2190	1660	848	503	88	120	144	36
25	55	98	410	4830	2070	1520	762	411	95	158	276	36
26	58	99	420	6590	1920	1500	756	402	91	94	269	36
27	61	104	440	8510	1770	1510	737	400	94	87	188	36
28	63	110	460	9900	1650	1410	667	354	107	82	143	35
29	72	113	490	11500	---	1330	601	312	103	82	122	35
30	72	125	530	11600	---	1270	553	262	92	78	107	35
31	65	---	580	9840	---	1190	---	251	---	77	94	---
TOTAL	2730	3787	11020	108850	85400	63870	25747	27462	6507	4325	5519	1607
MEAN	88.1	126	355	3511	3050	2060	858	886	217	140	178	53.6
MAX	141	236	580	11600	7280	3130	1290	1750	430	611	333	165
MIN	55	53	178	610	1650	1190	462	251	88	62	67	35
CFSM	.08	.11	.32	3.16	2.75	1.86	.77	.80	.20	.13	.16	.05
IN.	.09	.13	.37	3.65	2.86	2.14	.86	.92	.22	.14	.18	.05

CAL YR 1977 TOTAL 306892 MEAN 841 MAX 6060 MIN 36 CFSM .76 IN 10.29
WTR YR 1978 TOTAL 346824 MEAN 950 MAX 11600 MIN 35 CFSM .86 IN 11.62

02225500 OHOOPEE RIVER NEAR REIDSVILLE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV						
01...	1245	60	7.5	21.5	18.5	7.8
FEB						
07...	1215	4100	5.4	.0	3.0	11.5
MAY						
02...	1100	502	6.6	24.5	17.0	8.2
SEP						
06...	1130	62	6.8	28.0	27.0	7.2

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV										
01...	47	35	4	.4	40	--	.05	<.02	.04	4.0
FEB										
07...	34	80	10	--	90	--	.13	<.02	.02	4.0
MAY										
02...	52	60	7	.7	<60	--	.12	<.02	.10	13
SEP										
06...	50	50	6	1.0	90	11	.06	<.02	.04	11

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
APR					
17...	1600	1300	20.5	22	77
MAY					
24...	1320	489	24.0	15	20
JUL					
13...	1535	68	28.0	17	3.1
AUG					
15...	1010	267	27.5	13	9.4
31...	1730	94	24.5	13	3.3

02225990 ALTAMAHA RIVER NEAR JESUP, GA.

LOCATION.--Lat 31°39'59", long 81°50'19", Wayne-Long County line, Hydrologic Unit 03070106, at bridge on U.S. Highways 25, 82, and 301, 5 mi (8.0 km) northeast of Jesup.

DRAINAGE AREA.--13,600 mi² (35,200 km²), approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
06...	1140	4260	7.6	22.0	22.0	8.2
NOV						
02...	1230	7310	6.7	21.5	20.0	8.2
DEC						
08...	1030	9200	7.0	12.5	12.5	9.5
JAN						
18...	1345	19400	6.9	10.0	7.0	10.8
FEB						
08...	1515	87200	6.4	7.0	5.0	11.4
MAR						
08...	1410	18600	6.6	14.5	11.0	9.8
APR						
05...	1300	13300	7.0	28.0	20.5	7.4
MAY						
17...	1315	26200	6.4	23.0	21.0	6.7
JUN						
14...	1030	8140	7.2	26.0	28.5	6.6
JUL						
19...	1115	4670	7.3	29.0	29.0	6.8
AUG						
02...	1120	3950	7.5	31.0	30.0	7.0
SEP						
07...	1200	3290	7.4	26.0	27.5	7.0

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT												
06...	104	25	15	.5	<30	--	17	.40	<.02	.06	4.0	<.5
NOV												
02...	87	60	31	--	--	--	34	.34	<.02	.09	5.0	.4
DEC												
08...	73	110	32	.1	90	--	34	.29	.04	.08	7.0	--
JAN												
18...	61	75	19	.8	--	--	22	.25	<.02	.05	7.0	.9
FEB												
08...	41	150	72	.7	30	--	--	.17	<.02	.09	12	--
MAR												
08...	58	105	26	.9	40	--	24	.26	<.02	.05	4.0	<.5
APR												
05...	73	80	18	.7	<30	--	7	.28	<.02	.05	9.8	.1
MAY												
17...	58	80	20	1.0	<30	--	5	.13	<.02	.07	9.0	1.0
JUN												
14...	--	60	35	.6	70	--	42	--	--	.09	6.0	.8
JUL												
19...	98	50	25	.7	235	31	29	.39	<.02	.05	4.0	.5
AUG												
02...	110	50	20	.8	<30	36	15	.35	<.02	.07	3.0	.3
SEP												
07...	120	60	22	.5	<30	37	--	.43	<.02	.08	--	<.5

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.

LOCATION.--Lat 31°39'16", long 81°49'41", Wayne-Long County line, Hydrologic Unit 03070106, on right bank 60 ft (18 m) downstream from Seaboard Coast Line Railroad bridge at Doctortown, 4.5 mi (7.2 km) northeast of Jesup, and at mile 64.5 (103.8 km).

DRAINAGE AREA.--13,600 mi^2 (35,200 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to current year. Gage-heights collected at same site since 1925 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 24.48 ft (7.46 m) National Geodetic Vertical Datum of 1929. Prior to Sept. 5, 1934, nonrecording gage, and Sept. 5, 1934, to Sept. 30, 1975, water-stage recorder at same site at datum 4.0 ft (1.22 m) higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--47 years, 13,860 ft^3/s (393 m^3/s), 13.84 in/yr (351.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 178,000 ft^3/s (5,040 m^3/s) Apr. 18, 1936, gage height, 16.03 ft (4.89 m), present datum; minimum, 1,430 ft^3/s (40.5 m^3/s) Oct. 27, 28, Nov. 1, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1800, 18.6 ft (5.67 m), present datum, Jan. 23, 1925, discharge, 300,000 ft^3/s (8,500 m^3/s), from rating curve extended above 180,000 ft^3/s (5,100 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 90,000 ft^3/s (2,550 m^3/s) Feb. 7, gage height, 14.16 ft (4.316 m); minimum, 2,650 ft^3/s (75.0 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4500	6800	7910	11300	59800	19000	16900	11400	8000	4240	3880	4240
2	4810	7300	8250	12100	62600	18000	15600	10700	7200	4330	3950	4100
3	4850	7660	8590	12900	67400	17200	14600	9850	6930	4400	3800	3930
4	4440	7660	8870	13600	74900	16500	14000	9700	7430	4400	3740	3770
5	4060	7740	9040	14000	82500	16700	13300	9880	7860	4370	3860	3630
6	4250	7590	9140	13800	87700	17200	12200	11200	8210	4370	4280	3530
7	4240	8200	9190	13600	89600	17800	10700	13100	8010	4130	4640	3300
8	3980	9080	9180	13700	87600	18600	9780	15000	7720	3920	4620	3110
9	3800	9940	9120	14200	82700	19400	9260	16500	7570	3810	4780	3010
10	3640	10800	9490	14100	74600	20100	8850	17600	7780	3790	4870	2990
11	3620	11600	10100	14400	65900	20500	8430	18500	8320	3730	5040	3070
12	3770	12100	10400	15000	57300	21000	8140	19700	8360	3600	5920	3200
13	3680	12700	10300	15900	50000	22000	7830	21400	8110	3460	6990	3270
14	3620	13300	9870	16600	44100	23400	7720	23100	8140	3350	8000	3130
15	4150	13900	9560	17300	39300	24700	8430	24300	7800	3340	8830	3040
16	4870	14600	9190	18000	35100	25900	9570	25100	7300	3520	9030	2920
17	5640	15400	9210	18800	31400	27100	10900	26100	6850	3750	8650	2850
18	6340	16300	9670	19500	28600	28500	12300	27500	6560	4100	7970	2760
19	6550	17300	9880	20300	25900	29800	13600	29500	6360	4670	7650	2750
20	6140	18400	9660	21400	24100	30700	14600	30700	5940	5010	7620	2840
21	5660	19400	9590	22300	23100	31000	15300	31400	5370	5010	7680	2960
22	5540	19400	9530	23500	22700	31100	15500	31100	4980	4810	7980	3040
23	5680	18200	9160	25500	22400	31000	15700	29100	4660	4540	8150	3110
24	5670	16000	8980	27700	21900	30700	15900	26200	4490	4320	7750	3230
25	5320	13600	9180	29500	21100	29700	15800	24200	4680	4350	6880	3210
26	5020	10800	9660	30900	20600	27900	15400	22000	4880	4200	6210	3090
27	4580	9240	9830	32000	20100	25900	14400	20000	5080	3800	5870	2930
28	4110	8590	9770	35700	19600	24000	13000	17300	5120	3550	5560	2810
29	4150	8180	9550	43800	---	22100	12000	13300	4740	3480	5220	2720
30	5060	7760	9650	51400	---	20500	11600	10200	4310	3730	4850	2670
31	6090	---	10400	56800	---	18700	---	8980	---	3800	4560	---
TOTAL	147630	359540	291920	689600	1342600	726700	371310	604610	198760	125880	188830	95210
MEAN	4769	11980	9417	22250	47950	23440	12380	19500	6625	4061	6091	3174
MAX	6550	19400	10400	56800	89600	31100	16900	31400	8360	5010	9030	4240
MIN	3620	6800	7910	11300	19600	16500	7720	8980	4310	3340	3740	2670
CFSM	.35	.88	.69	1.64	3.53	1.72	.91	1.43	.49	.30	.45	.23
IN.	.40	.98	.80	1.89	3.67	1.99	1.02	1.65	.54	.34	.52	.26

CAL YR 1977 TOTAL 5162980 MEAN 14150 MAX 55100 MIN 2970 CFSM 1.04 IN 14.12
WTR YR 1978 TOTAL 5142790 MEAN 14090 MAX 89600 MIN 2670 CFSM 1.04 IN 14.07

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--September 1967 to October 1977 (discontinued).
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to September 1978 (discontinued).
WATER TEMPERATURES: November 1967 to September 1978 (discontinued).
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 177 micromhos July 10, 1978; minimum recorded, 38 micromhos Mar. 12, 1977.
WATER TEMPERATURES: Maximum, 33.0°C Aug. 22-26, 1968; minimum, 3.0°C Jan. 20-23, 1977.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 177 micromhos July 10; minimum recorded, 40 micromhos Feb. 8.
WATER TEMPERATURES: Maximum, 32.5°C June 28; minimum, 5.0°C Feb. 9-11.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT							
13...	0800	3720	20.0	14	24	261	97

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---			---	---	---	---	45	44	72	67
2	---	---			---	---	---	---	44	43	75	68
3	---	---			---	---	---	---	43	42	72	69
4	---	---			---	---	---	---	44	42	---	---
5	---	---			---	---	---	---	45	42	---	---
6	---	---			---	---	---	---	45	43	---	---
7	---	---			---	---	---	---	43	41	---	---
8	---	---			---	---	---	---	42	40	---	---
9	---	---			---	---	---	---	43	41	---	---
10	---	---			---	---	---	---	45	42	---	---
11	---	---			---	---	---	---	48	44	---	---
12	---	---			---	---	---	---	50	46	---	---
13	134	131			---	---	---	---	54	48	---	---
14	131	120			---	---	---	---	55	51	---	---
15	129	121			---	---	---	---	56	53	---	---
16	130	127			70	68	---	---	57	55	---	---
17	129	127			69	68	---	---	57	56	---	---
18	128	122			69	67	67	65	60	58	---	---
19	130	125			70	68	67	65	62	58	---	---
20	130	126			71	70	63	59	60	58	---	---
21	129	123			71	70	60	58	65	60	---	---
22	---	---			71	70	59	57	65	62	61	57
23	---	---			72	71	59	57	66	63	63	58
24	---	---			72	70	59	56	66	64	71	63
25	---	---			---	---	57	52	68	64	72	70
26	---	---			---	---	53	51	68	64	72	64
27	---	---			---	---	52	51	67	64	76	72
28	---	---			---	---	50	49	72	65	73	63
29	---	---			---	---	49	48	---	---	66	63
30	---	---			---	---	48	46	---	---	72	63
31	---	---			---	---	48	46	---	---	80	71
MONTH	134	120			72	67	67	46	72	40	80	57

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	81	73	78	75	101	91	135	122	108	103	117	111
2	76	70	76	74	106	100	130	120	106	103	118	114
3	72	69	76	74	104	96	131	102	112	100	121	116
4	---	---	72	69	101	93	108	97	125	114	124	118
5	---	---	73	72	103	91	141	111	129	120	122	118
6	---	---	73	65	94	88	143	127	118	110	123	119
7	---	---	64	61	93	87	142	97	108	103	127	122
8	---	---	69	66	93	86	100	97	108	100	133	127
9	---	---	66	63	96	87	100	95	103	97	148	143
10	---	---	65	63	90	83	177	99	105	100	154	148
11	---	---	64	62	85	82	150	101	105	100	156	144
12	---	---	64	60	87	80	107	105	100	98	155	147
13	---	---	63	59	92	80	106	103	98	88	164	156
14	---	---	64	58	83	76	108	105	90	77	171	164
15	---	---	61	57	82	75	110	107	78	67	168	160
16	---	---	60	56	91	79	111	107	75	71	170	154
17	---	---	58	56	90	84	114	110	80	76	174	167
18	86	84	62	57	91	82	114	104	82	79	175	166
19	88	83	67	61	91	85	104	95	83	80	170	160
20	87	77	64	60	97	90	94	85	89	85	168	161
21	84	76	64	60	101	94	129	86	88	84	160	153
22	83	79	67	64	109	102	121	110	87	84	158	149
23	85	82	69	66	114	108	113	109	88	84	157	149
24	83	77	73	69	117	110	112	104	90	86	156	151
25	81	79	80	71	121	110	107	101	94	90	154	147
26	83	80	82	78	128	118	108	106	99	95	153	147
27	82	79	85	74	126	113	108	103	101	94	159	149
28	84	78	87	81	112	109	103	92	96	91	156	151
29	83	78	91	83	115	109	108	103	93	91	152	149
30	80	78	93	88	126	114	112	108	100	92	148	145
31	---	---	93	83	---	---	112	108	112	102	---	---
MONTH	88	69	93	56	128	75	177	85	129	67	175	111

02226000 ALTAMAHA RIVER AT DOCTORTOWN, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	27.0	26.0	20.5	20.0	16.5	16.0	9.0	9.0	7.0	6.5	10.0	9.5
2	27.5	26.0	20.5	20.0	16.5	15.5	9.5	9.0	6.5	6.5	10.5	10.0
3	26.5	25.0	21.0	20.5	15.5	15.0	9.0	8.5	6.5	6.0	10.5	10.0
4	24.5	23.5	21.5	21.0	16.0	15.0	8.5	8.0	6.5	6.0	10.0	9.5
5	23.5	22.5	22.0	21.5	16.0	15.5	8.5	8.0	6.5	6.0	9.5	9.0
6	23.0	22.0	22.0	21.0	16.0	15.0	9.0	8.5	6.0	6.0	10.0	9.0
7	22.5	21.5	22.0	21.0	15.0	13.5	9.5	9.0	6.0	5.5	10.0	9.5
8	22.5	21.5	21.5	21.0	13.0	12.5	10.5	9.5	5.5	5.5	10.5	10.0
9	22.5	22.0	21.5	21.0	13.0	12.5	10.5	9.5	5.5	5.0	10.5	10.5
10	22.5	21.0	21.5	20.5	12.5	11.0	9.5	8.0	5.5	5.0	10.5	10.0
11	22.5	21.5	20.0	18.5	11.0	10.0	8.0	7.5	6.0	5.0	11.0	10.0
12	22.5	21.0	18.5	17.0	10.0	9.5	7.5	7.0	6.0	5.5	12.0	11.0
13	21.0	18.5	17.0	16.0	10.5	9.5	7.0	7.0	7.0	6.0	13.5	12.0
14	18.5	17.5	15.5	15.0	11.0	10.5	7.0	6.5	7.5	7.0	13.5	13.5
15	18.5	17.5	15.0	14.5	12.0	11.0	6.0	5.5	8.0	7.0	15.0	13.5
16	18.0	17.5	14.5	14.0	12.5	12.0	5.5	5.5	8.0	8.0	15.5	15.0
17	17.5	17.0	15.0	14.5	13.0	12.5	6.5	5.5	8.5	8.0	15.5	14.5
18	18.0	17.0	15.0	14.5	13.5	13.0	7.0	6.5	9.0	8.5	15.0	14.0
19	18.0	17.5	14.5	14.5	13.5	13.0	7.5	7.0	9.5	9.0	15.0	14.0
20	18.0	17.5	15.0	14.5	13.5	13.0	8.0	7.5	9.0	8.5	15.5	14.5
21	18.5	17.5	15.5	15.0	13.5	12.5	8.0	7.5	8.5	8.0	16.5	15.5
22	18.5	17.5	16.5	15.5	12.5	11.5	8.0	7.5	8.0	7.5	17.0	16.0
23	19.0	18.0	17.0	16.5	11.0	10.5	8.0	7.5	7.5	7.0	18.0	16.5
24	19.0	18.5	17.5	17.0	10.5	10.5	8.0	7.5	8.0	7.0	18.5	17.5
25	20.0	19.0	18.5	17.5	11.0	10.5	9.5	8.0	8.5	7.5	19.5	18.5
26	20.5	20.0	18.0	16.0	10.5	9.5	9.5	9.0	9.0	8.5	20.0	19.0
27	21.0	20.5	16.0	15.0	9.5	9.0	9.0	8.0	9.5	9.0	19.5	18.5
28	21.0	20.5	15.5	14.5	9.0	8.5	8.0	7.5	9.5	9.5	18.5	17.5
29	21.0	20.5	15.5	15.0	8.5	8.0	7.5	7.5	---	---	18.5	17.5
30	21.5	21.0	16.0	15.0	8.5	8.0	7.0	7.0	---	---	19.0	18.0
31	21.0	20.0	---	---	9.0	8.5	7.0	7.0	---	---	19.0	18.0
MONTH	27.5	17.0	22.0	14.0	16.5	8.0	10.5	5.5	9.5	5.0	20.0	9.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	19.5	18.5	20.0	19.5	28.5	27.0	32.0	31.0	30.5	29.0	30.5	29.5
2	20.0	19.0	20.5	19.5	28.5	27.5	31.5	31.0	30.5	29.5	30.0	29.0
3	21.0	19.5	20.5	20.0	28.5	27.5	31.0	30.0	30.0	29.0	30.0	29.0
4	21.0	20.0	20.5	19.5	27.5	27.0	30.5	29.0	30.0	29.0	30.0	29.0
5	21.5	20.5	21.5	20.0	27.5	27.0	31.0	30.0	29.0	28.5	29.5	29.0
6	22.0	21.0	21.5	20.5	28.0	27.0	30.5	29.5	29.0	28.0	28.5	28.0
7	23.0	21.5	21.5	21.0	28.5	27.0	30.0	29.0	28.5	27.5	28.5	27.0
8	23.5	22.5	22.0	21.0	28.5	27.5	30.0	29.0	28.5	27.5	29.0	27.5
9	24.0	23.0	22.0	21.5	28.5	28.0	30.5	29.0	29.0	27.5	28.5	27.5
10	24.0	23.0	22.5	21.5	29.0	28.0	31.0	30.0	29.5	28.5	28.5	27.5
11	24.0	23.5	22.0	21.5	28.5	28.0	30.5	29.5	29.0	28.0	27.5	27.0
12	23.5	23.0	22.0	21.5	28.5	27.5	30.5	30.0	28.5	28.0	28.0	26.5
13	23.5	22.5	22.0	21.5	29.0	28.0	30.0	29.0	28.5	27.5	28.5	27.5
14	22.5	22.0	21.5	21.0	29.0	28.5	30.0	28.5	28.5	27.5	28.5	28.0
15	22.5	21.5	21.5	21.0	28.5	28.0	29.5	28.5	28.5	27.5	28.5	27.0
16	22.5	21.5	21.0	20.5	28.0	27.0	29.0	28.5	29.0	28.0	28.5	27.5
17	22.0	21.5	21.0	20.5	27.0	26.5	29.5	28.0	30.0	28.5	29.0	28.0
18	22.0	21.5	21.0	20.5	27.5	26.0	29.5	29.0	30.0	29.0	29.0	28.0
19	21.5	21.0	21.5	21.0	27.5	26.5	29.5	28.5	30.5	29.5	29.0	27.5
20	21.0	20.5	22.0	21.5	28.0	27.0	29.0	28.0	30.5	29.5	29.0	28.0
21	21.0	20.0	22.5	21.5	29.0	27.5	30.0	28.0	30.5	29.5	28.5	27.5
22	20.5	19.5	23.5	22.5	29.0	28.0	30.5	29.0	30.0	29.5	28.5	27.5
23	20.0	19.5	24.0	23.0	30.5	28.5	30.5	29.5	29.5	29.0	28.5	27.5
24	20.0	19.0	24.5	23.5	30.5	29.5	31.0	29.5	29.5	28.5	28.0	27.5
25	20.5	19.5	25.0	24.0	31.0	29.5	31.0	30.0	30.0	28.5	27.5	27.0
26	20.5	19.0	25.0	25.0	31.5	30.0	31.0	30.0	30.0	29.0	27.0	26.0
27	19.0	18.0	25.5	25.0	31.5	30.5	30.5	29.5	30.0	29.0	26.0	25.5
28	19.0	18.0	26.0	25.5	32.5	31.0	29.5	28.5	30.0	29.0	25.5	24.5
29	19.5	18.5	26.5	25.5	32.0	31.0	30.0	28.5	30.0	29.0	25.0	24.0
30	20.0	19.0	27.5	26.0	32.0	30.0	30.5	29.0	30.0	29.0	24.0	23.5
31	---	---	28.0	27.0	---	---	30.5	29.0	30.5	29.0	---	---
MONTH	24.0	18.0	28.0	19.5	32.5	26.0	32.0	28.0	30.5	27.5	30.5	23.5

02226010 ALTAMAHA RIVER NEAR GARDI, GA.

LOCATION.--Lat 31°37'24", long 81°45'55", Wayne-Long County line, Hydrologic Unit 03070106, 6 mi (10 km) northeast of Gardi, 7 mi (11 km) downstream from Doctortown, and 9 mi (14 km) upstream from Penholoway Creek.
DRAINAGE AREA.--13,600 mi^2 (35,200 km^2), approximately.
PERIOD OF RECORD.--November 1974 to rrent year.
REMARKS.--Laboratory chemical analy y the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT						
06...	1100	4140	7.6	21.5	22.0	8.0
NOV						
02...	1200	7180	7.3	21.5	20.0	8.2
DEC						
07...	1200	9180	7.0	4.0	13.5	8.9
JAN						
18...	1300	19400	6.9	10.0	7.0	11.0
FEB						
08...	1445	88200	6.4	7.0	5.0	11.2
MAR						
08...	1330	18300	6.6	14.5	11.0	9.6
APR						
05...	1230	13600	7.0	28.0	21.0	6.9
MAY						
17...	1230	25900	6.4	23.0	21.5	6.5
JUN						
14...	1000	8140	7.2	26.0	28.0	6.7
JUL						
19...	1045	4520	7.3	29.0	29.5	6.0
AUG						
02...	1040	3960	7.5	31.0	30.5	6.0
SEP						
07...	1130	3360	7.3	26.0	28.5	6.7

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY (MG/L AS CACO3)
OCT							
06...	109	40	18	--	.4	--	--
NOV							
02...	88	40	30	--	--	--	--
DEC							
07...	76	100	28	--	.5	--	--
JAN							
18...	80	80	19	--	1.0	230	--
FEB							
08...	42	150	70	--	.7	30	--
MAR							
08...	80	80	25	--	1.0	90	--
APR							
05...	99	70	18	--	1.5	40	--
MAY							
17...	71	80	20	--	1.1	70	--
JUN							
14...	31	60	--	--	.6	40	--
JUL							
19...	165	80	23	21	1.5	90	39
AUG							
02...	174	80	21	11	1.5	<30	42
SEP							
07...	121	60	25	9	.7	<30	38

02226010 ALTAMAHA RIVER NEAR GARDI, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C. SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT							
06...	23	.36	.05	--	.08	5.0	<.5
NOV							
02...	36	.32	.04	--	.08	4.0	.4
DEC							
07...	15	.28	.06	--	.07	7.0	1.0
JAN							
18...	19	.25	<.02	--	.10	7.0	1.4
FEB							
08...	--	.16	<.02	--	.09	10	.9
MAR							
08...	27	.24	.14	--	.07	5.0	<.5
APR							
05...	7	.25	.03	--	.06	13	.1
MAY							
17...	5	.14	.02	--	.08	11	1.2
JUN							
14...	42	.42	<.02	--	.10	7.0	1.4
JUL							
19...	30	.40	.03	.41	.10	6.0	1.5
AUG							
02...	18	.34	.08	.18	.12	5.0	1.9
SEP							
07...	26	.42	<.02	.51	.10	--	<.5

02226100 PENHOLOWAY CREEK NEAR JESUP, GA.

LOCATION.—Lat 31°34'00", long 81°50'18", Wayne County, Hydrologic Unit 03070106, on downstream side of bridge on U.S. Highway 341, 4 mi (6.4 km) southeast of Jesup, and about 9.5 mi (15.3 km) upstream from mouth.
DRAINAGE AREA.—210 mi^2 (540 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—July 1958 to current year.
GAGE.—Water-stage recorder. Datum of gage is 19.09 ft (5.82 m) National Geodetic Vertical Datum of 1929. Since May 6, 1966, auxiliary water-stage recorder at highway bridge, 2.5 mi (4.0 km) downstream.
REMARKS.—Records good except those below 10 ft^3/s (0.28 m^3/s), which are fair.
AVERAGE DISCHARGE.—20 years, 211 ft^3/s (5.98 m^3/s), 13.66 in/yr (346.9 mm/yr).
EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 4,300 ft^3/s (122 m^3/s) Apr. 17, 1961, gage height, 14.8 ft (4.51 m); no flow at times most years.
EXTREMES FOR CURRENT YEAR.—Maximum discharge, 2,170 ft^3/s (61.5 m^3/s) Dec. 3, gage height, 12.48 ft (3.804 m); minimum daily, no flow Oct. 21, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	177	3.5	1030	198	344	220	85	9.4	2.9	14	545	35
2	164	2.9	2110	203	318	215	75	12	1.7	7.8	636	37
3	134	2.7	2150	196	314	298	65	9.4	1.5	5.8	641	45
4	105	3.3	2090	180	308	483	52	62	2.3	12	604	36
5	79	141	1810	160	297	645	48	148	8.0	5.8	602	39
6	57	284	1710	135	277	701	40	167	13	3.9	601	44
7	41	286	1620	118	255	632	33	150	9.3	6.1	541	38
8	30	259	1370	110	237	533	23	137	34	4.7	505	26
9	21	233	1200	150	261	503	17	119	68	2.3	499	20
10	15	187	972	187	303	613	15	100	83	1.2	435	19
11	10	129	786	210	341	756	14	83	117	1.5	377	23
12	7.7	95	560	212	356	782	12	74	659	2.5	379	22
13	6.3	80	438	220	349	716	16	66	1450	4.2	582	18
14	4.8	70	396	250	322	607	30	52	1180	40	824	16
15	3.8	60	414	265	279	511	30	34	911	59	857	13
16	2.9	52	416	267	246	446	36	25	703	92	892	9.6
17	1.9	52	426	258	248	415	48	21	520	197	835	6.9
18	1.0	60	418	257	294	412	54	15	408	189	738	4.8
19	.66	70	386	316	410	414	53	13	339	192	640	3.3
20	.02	65	356	744	530	398	41	14	270	254	520	2.5
21	.00	75	327	1050	581	369	37	14	206	276	438	1.7
22	.00	85	296	1120	536	325	38	13	170	254	374	.96
23	.02	106	263	1010	461	297	37	13	140	240	330	.46
24	.94	132	235	842	395	251	28	11	117	200	270	.41
25	1.4	167	222	685	343	210	21	6.8	97	139	213	.26
26	3.9	256	223	616	297	192	23	4.7	79	98	166	.18
27	6.1	318	208	581	254	178	21	5.4	62	100	130	.14
28	6.2	460	197	547	220	159	18	6.8	46	180	108	.07
29	4.7	635	180	495	---	133	16	7.6	33	230	95	.04
30	4.3	528	170	440	---	111	12	5.9	23	305	74	.04
31	4.5	---	182	386	---	96	---	3.9	---	398	52	---
TOTAL	894.14	4897.4	23161	12408	9376	12621	1038	1402.9	7753.7	3514.8	14503	462.36
MEAN	28.8	163	747	400	335	407	34.6	45.3	258	113	468	15.4
MAX	177	635	2150	1120	581	782	85	167	1450	398	892	45
MIN	.00	2.7	170	110	220	96	12	3.9	1.5	1.2	52	.04
CFSM	.14	.78	3.56	1.91	1.60	1.94	.17	.22	1.23	.54	2.23	.07
IN.	.16	.87	4.10	2.20	1.66	2.24	.18	.25	1.37	.62	2.57	.08

CAL YR 1977 TOTAL 69776.01 MEAN 191 MAX 2150 MIN .00 CFSM .91 IN 12.36
WTR YR 1978 TOTAL 92032.30 MEAN 252 MAX 2150 MIN .00 CFSM 1.20 IN 16.30

02226100 PENHOLOWAY CREEK NEAR JESUP, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--January 1972 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
JUL 19...	1300	193	4.1	26.0	5.3
SEP 07...	1030	39	4.3	24.0	5.9

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
JUL 19...	57	400	5	5	1.2	.5	2.7	.4	0	0	0	11
SEP 07...	62	180	5	5	.9	.7	3.2	.5	0	0	0	9.8

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
JUL 19...	5.2	.0	2.2	92	.00	.00	.01	.03	.01	.01	.03	.03
SEP 07...	6.8	.0	7.9	104	.02	.09	.01	.03	.03	.03	.06	.06

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
JUL 19...	.04	.90	.90	.93	.00	.93	.94	4.2	.01	.00	.00	.00
SEP 07...	.08	1.2	1.2	1.3	.00	1.3	1.3	5.9	.02	.01	.01	.01

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)
JUL 19...	.00	800	1	0	4	1100	10	.5	0	20	26	20
SEP 07...	.03	630	1	5	5	1300	10	<.5	0	30	37	35

02226100 PENHOLOWAY CREEK NEAR JESUP, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV							
29...	0940	635	15.0	3.0	11	19	100
JAN							
10...	1650	191	6.0	4.0	9	4.6	100
MAR							
02...	1550	213	10.5	4.0	7	4.0	100
APR							
18...	1430	52	22.0	--	26	3.7	--
MAY							
25...	1435	6.6	24.5	--	29	.52	--
JUL							
12...	0800	1.9	26.0	--	26	.13	--
AUG							
29...	1450	96	28.5	--	62	16	--

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.
(National stream-quality accounting network station)
(Radiochemical program station)
(National Pesticide water monitoring program)

LOCATION.--Lat 31°25'37", long 81°36'20", Glynn-McIntosh County line, Hydrologic Unit 03070106, at Seaboard Coast Line Railroad bridge, 3 mi (5 km) northeast of Everett City, and 15 mi (24 km) northwest of Brunswick.
DRAINAGE AREA.--14,000 mi^2 (36,300 km^2), approximately.
PERIOD OF RECORD.--October 1969 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1969 to current year.
pH: November 1969 to current year.
WATER TEMPERATURES: October 1969 to current year.
DISSOLVED OXYGEN: April 1970 to current year.
REMARKS.--Prior to 1978, water-quality samples for the National stream-quality accounting network, Radiochemical program, and National Pesticide water monitoring program were collected at, and published for, the Altamaha River at Doctortown, Ga. (station number 02226000).
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 282 micromhos Sept. 26, 1978; minimum recorded, 32 micromhos Apr. 9, 1973.
pH: Maximum recorded, 8.9 units Oct. 21, 22, 1971; minimum recorded, 5.3 units Dec. 12, 1976.
WATER TEMPERATURE: Maximum, 32.5°C July 9-15, 1977; minimum recorded, 3.0°C Jan. 10, 11, 1970, Jan. 20, 21, 1977.
DISSOLVED OXYGEN: Maximum recorded, 12.3 mg/L Feb. 3, 10, 11, 1977; minimum recorded, 2.7 mg/L Oct. 8, 1977.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 282 micromhos Sept. 26; minimum, 45 micromhos Feb. 10.
pH: Maximum, 7.3 units Oct. 16-18; minimum, 6.0 units Feb. 3.
WATER TEMPERATURE: Maximum, 32.0°C June 29, 30, July 2, 3, 26; minimum recorded, 4.0°C Jan. 3.
DISSOLVED OXYGEN: Maximum recorded, 11.8 mg/L Jan. 16, 17; minimum, 2.7 mg/L Oct. 8.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
03...	1300	4840	148	7.0	25.0	26.5	6.6
06...	0900	4050	98	6.7	--	23.0	7.4
NOV							
02...	1000	6760	98	--	--	19.0	8.3
02...	1250	6850	100	7.0	21.5	19.0	8.2
30...	1230	8170	76	6.4	24.5	15.8	8.0
DEC							
07...	1030	9140	--	6.4	--	13.0	7.8
JAN							
12...	1200	14400	86	6.6	12.0	6.5	11.2
18...	1000	18700	75	7.0	--	7.5	11.1
FEB							
08...	1130	89800	52	6.3	--	5.0	11.2
08...	1300	89800	50	6.3	8.0	6.0	11.4
MAR							
08...	1115	17800	73	6.3	--	11.0	9.3
09...	1130	18600	78	6.4	11.5	11.5	9.6
APR							
05...	1000	14100	82	6.2	--	20.5	6.7
06...	1130	13300	94	6.6	26.0	21.0	7.2
MAY							
02...	1200	11400	78	6.6	23.5	19.5	7.1
17...	1000	25100	71	6.8	--	21.0	6.4
JUN							
14...	0900	8100	102	6.6	--	27.5	6.3
20...	1300	6350	129	6.5	32.0	27.0	6.3
JUL							
19...	0920	4020	175	7.0	--	29.0	5.9
AUG							
02...	0845	3850	155	--	--	30.0	6.0
08...	1145	4670	140	7.0	30.5	28.5	6.7
SEP							
07...	0900	3550	140	6.4	--	28.0	6.6

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT										
03...	90	14	--	.9	40	--	--	--	--	--
06...	--	--	15	--	--	K13	330	27	1	8.3
NOV										
02...	--	--	25	--	--	K2000	190	24	0	7.2
02...	40	23	--	.4	930	--	--	--	--	--
30...	140	24	--	.5	70	--	--	--	--	--
DEC										
07...	--	20	17	--	--	160	200	18	2	5.3
JAN										
12...	100	2	--	.4	40	--	--	--	--	--
18...	--	--	14	--	--	150	180	18	2	5.1
FEB										
08...	--	--	60	--	--	60	63	11	1	3.0
08...	200	64	--	.6	<30	--	--	--	--	--
MAR										
08...	--	--	20	--	--	40	230	--	--	--
09...	120	21	--	.8	40	--	--	--	--	--
APR										
05...	--	--	13	--	--	20	27	21	1	6.2
06...	80	15	--	.7	40	--	--	--	--	--
MAY										
02...	60	16	--	--	40	--	--	--	--	--
17...	--	--	17	--	--	37	130	20	0	5.8
JUN										
14...	--	--	15	--	--	20	53	25	0	7.2
20...	110	21	--	.7	40	--	--	--	--	--
JUL										
19...	--	--	10	--	--	30	30	37	0	11
AUG										
02...	--	--	15	--	--	8	30	32	0	10
08...	135	17	--	.9	40	--	--	--	--	--
SEP										
07...	--	--	20	--	--	K10	K17	38	2	12

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)
OCT										
03...	--	--	--	--	--	--	--	13	--	--
06...	1.6	7.8	2.2	32	0	26	6.8	6.8	.1	13
NOV										
02...	1.5	7.5	2.6	35	--	29	6.5	4.7	.1	13
02...	--	--	--	--	--	--	--	6.0	--	--
30...	--	--	--	--	--	--	--	5.0	--	--
DEC										
07...	1.2	5.0	2.0	20	0	16	--	--	--	--
JAN										
12...	--	--	--	--	--	--	--	9.0	--	--
18...	1.2	8.2	1.5	19	0	16	8.8	7.0	.0	11
FEB										
08...	.8	4.2	1.8	12	0	10	8.1	4.4	.0	8.7
08...	--	--	--	--	--	--	--	5.5	--	--
MAR										
08...	--	--	--	14	0	11	8.5	7.5	.1	7.8
09...	--	--	--	--	--	--	--	7.0	--	--
APR										
05...	1.3	8.6	1.5	24	0	20	8.5	8.3	.1	6.8
06...	--	--	--	--	--	--	--	11	--	--
MAY										
02...	--	--	--	--	--	--	--	6.5	--	--
17...	1.4	7.0	1.8	29	0	24	7.9	5.6	.2	9.3
JUN										
14...	1.6	11	1.6	36	0	30	9.9	9.9	.1	9.9
20...	--	--	--	--	--	--	--	11	--	--
JUL										
19...	2.2	21	1.9	--	--	44	21	16	.1	11
AUG										
02...	1.8	19	1.9	--	--	37	16	14	.1	12
08...	--	--	--	--	--	29	--	13	--	--
SEP										
07...	2.0	14	2.0	--	--	36	16	9.4	.1	13

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS N)	NITRO- GEN, TOTAL (MG/L AS NO3)	PHOS- PHORUS, TOTAL (MG/L AS P)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P)
OCT										
03...	--	.37	.02	--	--	--	--	--	.07	--
06...	71	.33	.02	--	--	--	--	--	.06	--
NOV										
02...	65	.38	.01	--	--	--	--	--	.09	--
02...	--	.35	.02	--	--	--	--	--	.10	--
30...	--	.21	<.02	--	--	--	--	--	.12	--
DEC										
07...	66	.21	.02	--	--	.64	--	--	.05	.02
JAN										
12...	--	.20	<.02	--	--	--	--	--	.06	--
18...	72	.21	.00	--	--	.42	--	--	.05	.02
FEB										
08...	58	.17	.02	.44	.46	--	.63	2.8	.07	.03
08...	--	.17	<.02	--	--	--	--	--	.08	--
MAR										
08...	72	.19	.00	.30	.30	.23	.49	2.2	.04	.02
09...	--	.21	.03	--	--	--	--	--	.06	--
APR										
05...	76	.16	.03	.34	.37	.21	.53	2.3	.06	.02
06...	--	.02	.18	--	--	--	--	--	.06	--
MAY										
02...	--	.29	<.02	--	--	--	--	--	.13	--
17...	55	.13	.01	.35	.36	.35	.49	2.2	.06	.03
JUN										
14...	96	.27	.02	.51	.53	.39	.80	3.5	.10	.04
20...	--	.46	.02	--	--	--	--	--	.09	--
JUL										
19...	133	.33	.05	.47	.52	.44	.85	3.8	.08	.04
AUG										
02...	123	.33	.04	.49	.53	.45	.86	3.8	.09	.05
08...	--	.28	<.02	--	--	--	--	--	.09	--
SEP										
07...	113	.38	.01	.54	.55	.51	.93	4.1	.10	.06

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT										
03...	7.0	--	--	--	--	--	--	--	--	--
06...	--	8.0	--	--	--	--	--	27	295	80
NOV										
02...	4.7	--	--	--	--	--	--	40	730	91
02...	3.0	--	--	--	--	--	--	--	--	--
30...	9.0	--	--	--	--	--	--	--	--	--
DEC										
07...	13	--	--	--	--	--	--	17	420	74
JAN										
12...	8.0	--	--	--	--	--	--	--	--	--
18...	--	8.2	--	0.787	1.34	0.470	0.000	7	353	74
FEB										
08...	6.2	--	--	--	--	--	--	20	4970	92
08...	5.0	--	--	--	--	--	--	--	--	--
MAR										
08...	8.0	--	20	0.000	0.079	0.000	0.000	--	--	--
09...	5.0	--	--	--	--	--	--	--	--	--
APR										
05...	10	--	--	0.157	0.472	0.070	0.000	15	571	100
06...	9.8	--	--	--	--	--	--	--	--	--
MAY										
02...	9.0	--	--	--	--	--	--	--	--	--
17...	--	12	420	--	--	--	--	19	1320	91
JUN										
14...	7.2	--	270	0.472	0.945	0.330	0.000	25	547	90
20...	11	--	--	--	--	--	--	--	--	--
JUL										
19...	--	10	61000	--	--	--	--	10	109	71
AUG										
02...	10	--	2200	--	--	--	--	20	208	85
08...	14	--	--	--	--	--	--	--	--	--
SEP										
07...	5.7	--	--	--	--	--	--	22	211	99

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 06...	1	0	0	0	10	1	0	0	5	3	1200	420
JAN 18...	0	0	0	0	<10	0	0	0	5	4	1000	380
MAY 17...	1	1	0	0	10	0	0	0	2	4	1600	800
JUL 19...	1	1	0	0	10	0	0	0	3	2	470	320

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 06...	5	0	100	40	<.5	<.5	0	0	0	0	10	10
JAN 18...	4	4	50	30	<.5	<.5	0	0	0	0	20	10
MAY 17...	--	14	50	30	<.5	<.5	0	0	0	0	20	10
JUL 19...	16	12	90	50	.5	.5	0	0	0	0	20	10

DATE	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR- DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI- AZINON, TOTAL (UG/L)	DI- ELDRIN TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA- CHLOR, TOTAL (UG/L)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L)
NOV 02...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 08...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 17...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AUG 02...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	LINDANE TOTAL (UG/L)	MALA- THION, TOTAL (UG/L)	METH- OXY- CHLOR, TOTAL (UG/L)	METHYL PARA- THION, TOTAL (UG/L)	METHYL TRI- THION, TOTAL (UG/L)	PARA- THION, TOTAL (UG/L)	TOX- APHENE, TOTAL (UG/L)	TOTAL TRI- THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	SIMA- ZINE TOTAL COUL- SON COND. (UG/L)
NOV 02...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB 08...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 17...	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
AUG 02...	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)
NOV												
02...	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY												
17...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	2,4-D, TOTAL IN BOTTOM MATERIAL (UG/KG)	2,4,5-T TOTAL IN BOTTOM MATERIAL (UG/KG)	SILVEX, TOTAL IN BOTTOM MATERIAL (UG/KG)	SIMAZINE IN BOTTOM MATERIAL (UG/KG DRY SOLIDS)
NOV												
02...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY												
17...	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	SOLIDS, RESIDUE AT 105 DEG. C. DISSOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C. SUSPENDED (MG/L)	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT)	GROSS BETA, DISSOLVED (PCI/L AS CS-137)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L)	URANIUM DISSOLVED, EXTRACTION (UG/L)
MAR												
23...	1000	31100	54	10	.7	.6	2.6	<.4	2.4	<.4	.09	.12

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
MAR							
08...	0	0	0	31	83	95	100

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.9	6.8	7.2	7.0	6.5	6.4	6.7	6.7	6.2	6.1	6.4	6.4
2	6.9	6.8	7.1	6.9	6.4	6.4	6.7	6.6	6.1	6.1	6.4	6.4
3	7.0	6.9	7.0	6.8	6.4	6.4	6.6	6.6	6.1	6.0	6.5	6.4
4	7.0	7.0	6.9	6.8	6.4	6.3	6.6	6.6	6.1	6.1	6.5	6.4
5	7.0	6.9	6.9	6.6	6.4	6.3	6.6	6.5	6.2	6.1	6.5	6.5
6	7.0	6.9	6.6	6.6	6.4	6.3	6.5	6.5	6.2	6.1	6.5	6.5
7	7.0	6.9	6.6	6.5	6.4	6.4	6.5	6.5	6.3	6.2	6.5	6.4
8	7.1	7.0	6.6	6.5	6.4	6.3	6.5	6.5	6.3	6.2	6.4	6.4
9	7.1	7.0	6.5	6.4	6.4	6.4	6.6	6.5	6.3	6.2	6.4	6.4
10	7.1	7.0	6.4	6.4	6.5	6.4	6.6	6.6	6.3	6.2	6.4	6.4
11	7.1	7.0	6.4	6.4	6.5	6.5	6.6	6.6	6.3	6.2	6.4	6.4
12	7.1	7.0	6.4	6.3	6.5	6.5	6.6	6.6	6.3	6.2	6.4	6.4
13	7.2	7.1	6.4	6.4	6.5	6.5	6.6	6.5	6.2	6.2	6.4	6.3
14	7.2	7.1	6.4	6.4	6.5	6.5	6.5	6.5	6.3	6.2	6.3	6.3
15	7.2	7.1	6.4	6.3	6.5	6.5	6.6	6.5	6.3	6.2	6.3	6.3
16	7.3	7.1	6.3	6.2	6.5	6.5	6.6	6.5	---	---	6.3	6.2
17	7.3	7.2	6.2	6.2	6.5	6.5	6.5	6.5	---	---	6.3	6.3
18	7.3	7.2	6.2	6.2	6.6	6.5	6.5	6.4	---	---	6.3	6.3
19	7.2	7.1	6.3	6.2	6.7	6.6	6.4	6.4	---	---	6.3	6.3
20	7.1	7.0	6.2	6.2	6.7	6.6	6.4	6.3	---	---	6.3	6.3
21	7.1	7.0	6.2	6.2	6.7	6.6	6.4	6.3	---	---	6.3	6.3
22	7.0	7.0	6.2	6.2	6.7	6.6	6.4	6.3	---	---	6.3	6.3
23	7.1	7.0	6.2	6.2	6.7	6.7	6.4	6.3	---	---	6.4	6.3
24	7.1	7.0	6.3	6.2	6.7	6.7	6.3	6.3	6.4	6.2	6.4	6.3
25	7.1	7.0	6.3	6.2	6.7	6.7	6.3	6.2	6.4	6.4	6.4	6.3
26	7.0	6.9	6.3	6.2	6.7	6.7	6.2	6.2	6.4	6.4	6.4	6.4
27	7.0	6.9	6.3	6.3	6.8	6.7	6.3	6.2	6.4	6.4	6.4	6.4
28	7.1	6.9	6.4	6.3	6.8	6.7	6.3	6.3	6.4	6.4	6.5	6.4
29	7.1	6.9	6.4	6.3	6.8	6.7	6.3	6.3	---	---	6.5	6.5
30	7.1	7.0	6.4	6.4	6.8	6.7	6.3	6.2	---	---	6.5	6.5
31	7.2	7.1	---	---	6.7	6.6	6.2	6.1	---	---	6.5	6.5
MONTH	7.3	6.8	7.2	6.2	6.8	6.3	6.7	6.1	6.4	6.0	6.5	6.2

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.5	6.4	6.6	6.5	6.6	6.6	6.9	6.7	6.7	6.7	6.8	6.7
2	6.5	6.5	6.6	6.5	6.6	6.6	6.9	6.7	6.7	6.6	6.9	6.8
3	6.5	6.5	6.6	6.5	6.7	6.6	6.9	6.8	6.7	6.5	6.8	6.7
4	6.5	6.5	6.6	6.5	6.7	6.7	6.9	6.8	6.6	6.5	6.8	6.7
5	6.6	6.5	6.6	6.6	6.8	6.7	6.8	6.7	6.6	6.5	6.9	6.8
6	6.6	6.5	6.6	6.6	6.8	6.7	6.8	6.7	6.6	6.5	7.0	6.8
7	6.6	6.5	6.6	6.5	6.7	6.7	---	---	6.5	6.5	6.9	6.8
8	6.6	6.5	6.5	6.4	6.7	6.6	---	---	6.5	6.5	7.0	6.8
9	6.6	6.6	6.5	6.4	6.7	6.6	---	---	6.5	6.4	6.9	6.8
10	6.6	6.6	6.4	6.4	6.7	6.6	---	---	6.6	6.5	6.9	6.8
11	6.7	6.6	6.4	6.4	6.7	6.5	---	---	6.6	6.6	7.0	6.8
12	6.7	6.7	6.4	6.4	6.6	6.5	7.2	6.9	6.5	6.4	7.0	6.9
13	6.7	6.7	6.4	6.4	6.6	6.5	7.0	6.8	6.5	6.4	7.0	6.9
14	6.7	6.7	6.4	6.3	6.6	6.3	7.0	6.8	6.4	6.3	7.0	6.9
15	6.7	6.7	6.4	6.3	6.5	6.5	6.9	6.8	6.3	6.2	7.0	6.9
16	6.7	6.7	6.4	6.3	6.5	6.5	6.9	6.8	6.2	6.1	7.0	6.9
17	6.7	6.6	6.4	6.3	6.5	6.4	6.9	6.8	6.1	6.1	7.0	6.8
18	6.6	6.5	6.4	6.3	6.5	6.4	6.9	6.8	6.2	6.1	7.0	6.8
19	6.6	6.5	6.4	6.3	6.5	6.4	6.9	6.8	6.2	6.2	7.0	6.7
20	6.5	6.5	6.4	6.4	6.6	6.5	6.8	6.7	6.3	6.2	7.1	6.9
21	6.5	6.5	6.4	6.4	6.6	6.6	6.7	6.5	6.3	6.3	7.2	7.0
22	6.5	6.5	6.5	6.4	6.6	6.6	6.6	6.5	6.4	6.3	7.1	7.0
23	6.5	6.5	6.5	6.4	6.8	6.6	6.6	6.5	6.4	6.4	7.1	7.0
24	6.5	6.4	6.5	6.4	6.9	6.7	6.6	6.6	6.4	6.4	7.1	7.0
25	6.5	6.4	6.5	6.5	6.9	6.7	6.7	6.6	6.5	6.4	7.1	7.0
26	6.5	6.4	6.5	6.5	7.0	6.8	6.7	6.6	6.5	6.4	7.0	7.0
27	6.5	6.5	6.5	6.5	6.9	6.8	6.8	6.7	6.6	6.5	7.0	7.0
28	6.5	6.5	6.5	6.5	7.2	6.8	6.7	6.6	6.7	6.5	7.0	6.9
29	6.6	6.5	6.6	6.5	6.9	6.8	6.7	6.6	6.7	6.6	7.0	6.9
30	6.6	6.5	6.6	6.5	6.9	6.8	6.7	6.6	6.7	6.7	7.0	6.9
31	---	---	6.6	6.5	---	---	6.7	6.6	6.8	6.7	---	---
MONTH	6.7	6.4	6.6	6.3	7.2	6.3	7.2	6.5	6.8	6.1	7.2	6.7
YEAR	7.3	6.0										

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.—Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOPER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.2	5.9	8.5	8.3	8.0	7.7	10.7	10.4	11.3	11.1	9.9	9.1
2	6.1	5.9	8.3	8.0	7.7	7.4	10.5	10.3	11.4	11.1	9.9	9.2
3	6.4	6.1	8.3	8.0	7.6	7.5	10.6	10.4	11.4	11.2	10.0	9.2
4	6.7	6.3	8.3	8.0	7.8	7.7	10.7	10.6	11.6	11.3	9.5	8.9
5	7.2	6.7	8.5	7.8	7.9	7.8	10.7	10.6	11.7	11.5	10.1	9.4
6	7.5	7.1	7.9	7.6	7.9	7.7	10.6	10.3	11.7	11.5	10.3	9.9
7	7.6	7.2	8.1	7.7	8.4	7.8	10.4	10.1	11.7	11.5	10.3	9.9
8	7.6	2.7	8.1	7.8	9.0	8.4	10.2	9.9	11.6	11.4	10.0	9.6
9	7.5	6.5	7.9	7.7	9.1	8.9	9.9	9.8	11.7	11.5	9.7	9.2
10	7.7	7.2	7.8	6.9	9.3	9.0	10.5	9.9	11.7	11.4	9.8	9.3
11	8.0	7.4	7.3	7.0	9.8	9.3	11.1	10.5	11.7	11.3	9.9	9.5
12	7.8	7.4	7.6	7.3	10.1	9.8	11.3	11.1	11.4	11.1	9.9	9.5
13	8.1	7.5	7.8	7.6	10.1	9.9	11.3	11.0	11.1	10.8	9.4	9.0
14	8.4	4.0	8.0	7.8	10.0	9.6	11.0	10.9	10.8	10.5	9.0	8.4
15	8.7	5.5	8.2	7.9	9.6	9.2	11.5	11.0	10.6	10.3	8.5	8.2
16	8.9	7.3	8.2	7.9	9.3	9.1	11.8	11.5	---	---	8.3	7.9
17	9.2	8.6	7.9	7.6	9.1	8.5	11.8	11.5	---	---	8.4	8.0
18	9.1	8.9	7.6	7.5	8.6	8.2	11.5	11.2	---	---	8.9	8.4
19	8.9	8.6	7.6	7.5	8.5	8.2	11.2	10.9	---	---	9.0	8.9
20	8.8	8.6	7.7	7.5	8.6	8.4	10.9	10.5	---	---	9.0	8.8
21	8.8	8.5	7.5	7.1	8.5	8.4	10.7	10.5	---	---	8.7	8.3
22	8.8	8.6	7.3	6.9	9.0	8.6	10.8	10.7	---	---	8.4	8.2
23	8.8	8.6	6.9	6.5	9.4	9.1	10.8	10.8	---	---	8.3	8.1
24	8.8	8.6	6.5	6.4	9.6	9.4	10.8	10.7	11.0	10.5	8.1	7.9
25	8.6	8.4	6.7	6.0	9.7	9.6	10.7	10.4	10.9	10.5	7.9	7.7
26	8.4	8.0	6.7	6.5	9.8	9.6	10.4	10.2	10.6	10.2	7.7	7.4
27	8.4	7.9	7.5	6.6	10.2	9.9	10.5	10.2	10.3	8.6	7.8	7.3
28	8.3	7.9	7.8	7.4	10.8	10.3	10.9	10.5	10.2	9.3	8.3	7.7
29	8.3	7.8	7.9	7.8	11.0	10.8	11.2	10.9	---	---	8.5	8.1
30	8.3	7.8	8.0	7.7	11.1	10.8	11.3	11.2	---	---	8.4	8.1
31	8.6	8.1	---	---	10.9	10.6	11.3	10.9	---	---	8.4	8.0
MONTH	9.2	2.7	8.5	6.0	11.1	7.4	11.8	9.8	11.7	9.6	10.3	7.3

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.3	8.0	7.4	7.2	5.6	5.5	6.8	5.7	6.6	6.2	7.0	6.7
2	8.0	7.7	7.4	7.1	5.7	5.5	6.4	5.9	7.3	6.3	7.1	6.6
3	7.7	7.5	7.4	7.3	5.5	5.3	6.4	5.7	6.9	6.4	6.8	6.5
4	7.6	7.3	7.6	7.1	5.3	4.8	6.2	5.7	6.7	6.4	6.8	6.5
5	7.4	7.2	7.1	6.9	5.1	4.7	6.5	5.7	6.8	6.4	7.0	6.3
6	7.3	7.1	7.0	6.9	---	---	6.4	6.0	6.8	6.6	7.6	6.8
7	7.2	7.0	7.0	6.8	---	---	---	---	6.7	6.5	7.7	7.0
8	7.0	6.9	6.8	6.5	---	---	---	---	7.0	6.6	8.2	7.2
9	6.9	6.8	6.6	6.4	---	---	---	---	7.1	6.8	8.0	7.1
10	6.9	6.7	6.5	6.4	---	---	---	---	7.7	7.1	7.5	7.0
11	6.9	6.7	6.7	6.5	---	---	---	---	7.2	6.6	7.6	7.1
12	6.8	6.7	6.7	6.5	---	---	6.5	5.9	7.0	6.0	7.7	7.2
13	7.1	6.8	6.6	6.4	---	---	6.1	5.4	6.5	5.7	8.1	7.2
14	6.9	6.8	6.5	6.4	6.0	5.8	6.9	5.7	6.1	5.4	7.7	7.5
15	7.2	6.9	6.7	6.6	5.8	5.2	6.6	6.0	5.9	5.3	7.8	7.0
16	7.5	7.2	6.8	6.6	6.2	5.4	6.0	5.6	5.8	5.3	7.4	6.9
17	7.3	7.2	6.8	6.5	---	---	5.9	5.5	6.3	4.7	7.6	6.8
18	7.2	7.1	6.6	6.3	---	---	6.1	5.5	5.8	4.9	7.3	6.2
19	7.5	7.0	6.6	6.3	---	---	6.2	5.8	5.6	4.8	7.1	5.4
20	7.4	7.3	6.4	6.2	6.3	6.0	6.2	5.9	5.6	5.3	7.9	5.2
21	7.6	7.3	6.3	6.1	6.3	5.8	6.3	6.0	5.7	5.5	8.1	7.0
22	7.7	7.5	6.2	6.0	6.0	5.8	6.1	5.9	5.9	5.7	7.5	6.9
23	7.7	7.6	6.2	5.9	7.4	6.0	6.0	5.8	6.2	6.0	6.8	6.4
24	7.6	7.4	6.1	5.8	7.4	6.1	6.1	5.8	6.3	6.1	6.6	6.1
25	7.4	7.3	5.9	5.6	7.2	6.0	6.1	5.9	6.4	6.2	6.3	5.9
26	7.3	7.3	5.8	5.6	7.1	6.2	6.1	5.9	6.4	6.2	6.2	5.8
27	7.7	7.3	5.6	5.3	6.5	6.2	6.2	6.0	6.5	6.3	6.5	6.2
28	7.7	7.6	5.7	5.5	7.8	6.4	6.2	6.0	6.7	6.3	6.5	6.0
29	7.7	7.6	5.6	5.3	6.9	6.2	6.2	6.0	6.9	6.6	6.2	5.8
30	7.5	7.4	5.4	5.3	6.8	6.1	6.2	6.0	7.0	6.7	6.4	5.9
31	---	---	5.8	5.3	---	---	6.4	6.1	7.0	6.6	---	---
MONTH	8.3	6.7	7.6	5.3	7.8	4.7	6.9	5.4	7.7	4.7	8.2	5.2
YEAR	11.8	2.7										

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	27.0	26.0	19.5	19.0	17.0	16.0	9.0	7.5	7.0	6.5	11.0	10.5
2	27.5	26.0	19.5	19.0	16.5	16.0	7.5	5.0	7.0	6.5	11.0	10.5
3	27.0	25.5	20.0	19.0	16.0	15.0	5.0	4.0	7.0	6.5	11.0	10.5
4	25.5	24.0	20.5	19.5	15.5	15.0	---	---	7.0	6.0	11.0	9.5
5	24.0	23.0	20.5	20.0	16.0	15.0	---	---	7.0	5.5	10.0	9.0
6	24.0	22.5	21.0	20.0	16.0	14.5	---	---	6.5	5.5	10.5	9.0
7	23.5	22.5	20.5	20.0	14.0	11.5	---	---	6.0	5.5	11.0	10.0
8	24.0	22.5	20.5	19.5	11.5	11.0	6.0	5.5	6.0	5.5	11.5	11.0
9	23.5	23.0	20.5	20.0	---	---	6.5	6.0	6.0	5.5	11.5	11.0
10	23.5	22.5	20.0	19.5	---	---	6.5	6.5	7.0	5.5	11.0	10.0
11	23.5	22.5	19.0	17.0	---	---	6.5	6.0	7.5	5.5	11.0	9.5
12	23.5	22.5	17.0	15.5	---	---	7.0	5.0	8.0	6.0	12.5	11.0
13	22.0	20.0	15.5	14.0	10.5	9.5	7.5	6.5	8.5	6.5	14.5	12.5
14	20.0	19.0	14.0	13.5	11.0	8.0	7.5	6.5	9.0	7.5	15.0	14.5
15	19.5	18.0	14.0	13.0	9.0	7.5	6.5	5.5	8.5	7.5	15.5	14.5
16	19.0	18.0	14.5	13.5	8.0	6.0	5.5	5.0	---	---	16.5	15.5
17	18.5	17.0	15.5	14.5	7.0	6.0	6.5	5.5	---	---	15.5	14.0
18	18.5	16.5	15.5	15.0	6.5	6.0	8.0	7.0	---	---	14.0	13.5
19	18.5	17.0	15.0	14.5	6.5	6.0	8.5	7.5	---	---	14.5	13.0
20	18.5	17.5	15.0	14.0	7.0	6.0	8.5	8.5	---	---	15.0	14.0
21	18.5	17.5	16.5	15.0	7.0	6.5	8.5	8.0	---	---	16.0	15.0
22	18.5	17.5	16.5	15.5	7.0	7.0	8.0	7.5	---	---	17.5	16.0
23	19.0	18.0	17.0	16.5	7.5	7.0	8.0	7.5	---	---	18.0	16.5
24	19.0	18.5	17.5	17.0	7.5	7.0	8.5	7.5	8.0	7.0	18.5	17.5
25	19.5	19.0	18.0	17.0	7.5	7.0	10.0	8.5	9.0	7.5	19.5	18.5
26	20.5	19.5	17.0	15.0	7.5	7.5	10.0	9.0	10.0	8.5	19.5	18.5
27	20.5	19.5	15.0	14.0	8.0	7.5	9.0	8.0	10.5	9.5	19.0	18.0
28	21.0	19.5	14.5	13.5	8.0	7.5	8.0	7.0	10.5	10.0	18.0	17.0
29	20.5	19.5	15.5	14.5	8.0	7.5	7.0	6.5	---	---	18.0	16.5
30	21.0	20.0	16.0	15.5	8.5	8.0	6.5	6.0	---	---	18.5	17.0
31	20.0	19.5	---	---	8.5	8.0	6.5	6.0	---	---	18.5	17.5
MONTH	27.5	16.5	21.0	13.0	17.0	6.0	10.0	4.0	10.5	5.5	19.5	9.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	19.5	18.0	20.0	19.5	27.5	26.0	31.5	30.5	31.0	29.5	31.5	29.5
2	20.0	18.5	20.0	19.0	28.0	26.5	32.0	30.5	30.5	28.5	31.0	30.0
3	20.5	19.5	20.0	19.5	27.5	27.0	32.0	30.5	30.0	28.5	31.0	29.5
4	21.0	20.0	20.5	20.0	28.5	27.0	31.5	30.0	30.0	29.0	30.5	29.5
5	21.5	20.0	21.5	20.0	28.5	27.0	31.5	30.0	29.5	28.5	30.0	29.0
6	21.5	20.5	22.0	20.5	29.5	27.0	30.5	29.5	28.5	28.0	30.0	28.5
7	22.0	21.0	22.0	21.5	29.5	27.5	---	---	29.0	28.0	30.0	28.0
8	23.0	21.5	22.5	21.5	30.0	27.5	---	---	29.0	28.0	30.0	28.0
9	23.5	22.0	22.5	22.0	29.5	27.0	---	---	29.0	27.5	29.5	28.0
10	23.5	22.5	23.0	22.0	29.0	26.0	---	---	29.0	28.0	29.0	28.0
11	23.5	23.0	22.5	21.5	---	---	---	---	29.0	28.0	28.5	27.5
12	23.5	23.0	22.0	21.5	---	---	30.5	29.5	28.5	27.5	29.0	27.5
13	23.0	22.0	22.5	21.5	---	---	29.5	28.5	29.0	27.5	29.5	28.0
14	22.5	21.5	22.0	20.5	28.5	27.5	29.5	27.5	28.5	27.5	29.0	28.0
15	22.5	21.0	21.5	20.5	28.5	27.0	30.5	29.0	29.0	27.5	29.5	28.0
16	22.5	21.5	21.0	20.5	26.0	25.0	29.5	29.0	29.0	28.0	29.5	28.0
17	22.5	21.5	21.5	20.5	---	---	30.0	28.5	29.5	28.0	30.0	28.5
18	22.0	21.5	22.0	21.0	---	---	29.5	28.5	29.5	28.5	30.0	28.5
19	22.0	21.0	22.0	21.5	---	---	30.0	28.5	29.5	28.5	30.5	28.5
20	21.0	20.0	22.5	21.5	27.0	26.0	30.0	29.0	30.0	29.0	31.0	29.0
21	20.5	19.5	23.0	22.0	28.0	26.5	30.0	28.5	30.5	29.5	29.5	28.5
22	19.5	19.0	23.5	22.5	28.5	27.0	30.5	29.0	30.0	29.5	30.0	28.5
23	19.5	18.5	24.0	23.0	29.5	27.5	30.5	29.5	29.5	29.0	29.5	28.5
24	20.0	19.0	24.5	23.5	29.5	28.5	31.5	29.5	29.5	28.5	29.0	28.0
25	20.5	19.5	25.0	24.0	30.5	28.5	31.5	30.0	29.5	28.5	28.5	27.5
26	20.0	18.5	25.0	24.5	31.0	29.0	32.0	30.5	30.0	28.5	28.0	27.0
27	18.5	17.5	25.5	24.5	31.5	30.0	31.0	30.0	30.0	29.0	27.0	26.0
28	18.5	17.0	25.5	24.5	32.0	30.5	30.0	29.0	30.0	29.0	26.5	25.5
29	19.0	17.5	26.0	24.5	32.0	31.0	30.5	29.0	30.5	29.0	26.0	25.0
30	20.0	18.5	26.5	25.0	32.0	30.0	30.5	29.0	31.0	29.5	25.0	24.5
31	---	---	26.5	25.5	---	---	31.0	29.5	31.0	29.5	---	---
MONTH	23.5	17.0	26.5	19.0	32.0	25.0	32.0	27.5	31.0	27.5	31.5	24.5
YEAR	32.0	4.0										

02226160 ALTAMAHA RIVER NEAR EVERETT CITY, GA.—Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	154	152	112	92	75	71	98	91	53	50	69	67
2	156	150	101	91	81	72	99	91	50	47	71	69
3	158	149	95	89	82	80	91	87	49	46	72	70
4	160	142	90	86	81	71	94	91	49	47	75	72
5	147	106	87	78	71	64	95	92	50	47	77	75
6	106	99	89	78	65	63	93	87	50	48	78	75
7	121	100	89	82	67	65	87	84	50	48	77	74
8	122	115	83	78	67	65	90	86	49	47	75	74
9	123	113	77	73	67	64	90	87	47	46	75	74
10	117	110	76	73	68	66	94	89	47	45	75	73
11	111	109	75	73	70	68	94	90	48	46	73	71
12	112	110	74	73	69	67	89	84	49	47	73	71
13	129	111	73	73	68	66	85	83	51	48	72	70
14	133	125	73	72	71	69	84	82	52	50	71	67
15	125	118	73	71	72	70	83	82	53	51	67	63
16	118	113	73	71	71	69	83	81	---	---	64	62
17	114	109	72	70	74	69	82	79	---	---	65	63
18	107	102	70	68	80	75	79	76	---	---	64	62
19	102	94	69	66	86	80	77	72	---	---	64	60
20	102	94	67	64	89	86	72	71	---	---	62	58
21	102	94	65	63	93	89	73	71	---	---	60	57
22	95	93	64	63	98	93	72	70	---	---	62	57
23	96	94	64	63	99	98	71	68	---	---	64	61
24	108	96	65	64	100	85	68	65	64	62	65	63
25	107	95	66	64	84	79	66	63	64	62	67	64
26	95	92	71	66	85	81	64	61	65	63	74	67
27	93	91	71	69	87	84	61	60	66	65	76	74
28	97	93	71	69	86	83	61	59	68	66	75	72
29	103	98	71	70	88	86	60	58	---	---	74	70
30	117	105	75	71	90	87	59	55	---	---	74	70
31	113	107	---	---	91	89	55	52	---	---	72	69
MONTH	160	91	112	63	100	63	99	52	68	45	78	57

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	77	70	78	75	116	110	161	145	167	164	170	154
2	84	76	80	76	127	116	175	149	165	123	169	165
3	88	83	83	79	135	127	179	166	146	138	172	168
4	91	88	99	83	137	135	174	159	144	139	175	170
5	94	88	118	99	136	134	159	144	151	144	181	175
6	100	93	117	114	136	130	153	142	153	148	181	156
7	103	99	116	103	130	122	---	---	154	148	156	125
8	107	99	102	91	122	115	---	---	147	139	125	118
9	112	105	92	89	115	112	---	---	140	136	120	117
10	117	111	92	90	115	110	---	---	137	133	136	117
11	121	115	91	89	115	112	---	---	134	131	142	137
12	124	119	89	87	113	107	218	192	132	124	144	140
13	125	120	87	84	115	108	199	189	131	128	142	125
14	127	121	84	81	110	104	187	181	127	113	139	125
15	130	124	80	78	104	102	194	185	113	103	157	141
16	130	123	79	76	107	103	200	192	103	97	157	155
17	128	117	76	75	116	107	200	195	99	96	156	131
18	117	108	75	73	127	116	194	183	103	99	181	132
19	110	102	75	73	132	127	184	176	109	104	181	141
20	102	96	74	73	138	131	174	151	113	109	152	141
21	99	95	76	73	145	136	150	131	118	113	161	139
22	95	91	76	73	148	140	151	127	114	112	212	160
23	95	92	75	73	149	142	154	150	113	109	256	217
24	94	91	77	74	155	143	157	151	110	107	269	258
25	94	85	80	77	162	153	161	155	116	109	273	262
26	84	75	81	79	166	155	161	157	127	117	282	262
27	75	73	87	81	165	155	166	157	141	128	257	249
28	76	73	92	88	164	153	169	159	147	141	257	250
29	77	74	97	92	160	142	164	159	145	143	275	256
30	78	75	104	97	152	141	169	162	148	144	269	253
31	---	---	110	104	---	---	170	166	154	148	---	---
MONTH	130	70	118	73	166	102	218	127	167	96	282	117
YEAR	282	45										

RESERVOIRS IN ALTAMAHA RIVER BASIN

02210000 LLOYD SHOALS RESERVOIR.--Lat 33°19'13", long 83°50'20", Butts County, Hydrologic Unit 03070103, on Ocmulgee River, 1 mi (1.6 km) upstream from bridge on State Highway 16, and 7 mi (11.3 km) east of Jackson. DRAINAGE AREA, 1,400 mi² (3,626 km²). PERIOD OF RECORD, October 1929 to current year. Datum of gage is at mean sea level (levels by Georgia Power Co.).

Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 528.0 and 525.0 ft) (160.9 and 160.0 m) is equipped with flashboards 308.5 ft (94.0 m) wide by 2 ft (0.61 m) high and 420 ft (128.0 m) wide by 5 ft (1.52 m) high. Dam completed in 1910. Total capacity at elevation 530.0 ft (161.5 m) (top of flashboards) is 107,000 acre-ft (132 hm³), of which 78,000 acre-ft (96.2 hm³) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	526.8	92200	-	-
Oct. 31................	527.5	95200	+3000	+49
Nov. 30................	523.8	80300	-14900	-250
Dec. 31................	525.5	87000	+6700	+109
CAL YR 1977	-	-	-5200	-7
Jan. 31................	528.1	98000	+11000	+179
Feb. 28................	525.0	85000	+13000	-234
Mar. 31................	525.6	87400	+2400	+39
Apr. 30................	529.4	104000	+16600	+279
May 31................	529.1	102000	-2000	-33
June 30................	527.6	95700	-6300	-106
July 31................	527.2	93900	-1800	-29
Aug. 31................	528.2	98400	+4500	+73
Sept. 30................	525.1	85400	-13000	-218
WTR YR 1978	-	-	-6800	-9

† Elevation at 0700 on day following that shown in first column.

02222500 SINCLAIR RESERVOIR.--Lat 33°08'27", long 83°12'08", Baldwin County, Hydrologic Unit 03070101, on Oconee River, 1.5 mi (2.4 km) upstream from Georgia Railroad bridge, and 4 mi (6.4 km) north of Milledgeville. DRAINAGE AREA, 2,900 mi² (7,511 km²). PERIOD OF RECORD, October 1952 to current year. Datum of gage is at mean sea level (levels by Georgia Power Co.).

Reservoir is formed by concrete gravity dam. Spillway (crest elevation, 319 ft) (97.2 m) is equipped with 24 gates 30 ft wide by 21 ft high (9.14 m by 6.40 m). Storage began in 1952; water in reservoir first reached minimum pool elevation in 1953. Total capacity at elevation 340.0 ft (103.6 m), top of gages, is 334,000 acre-ft (412 hm³), of which 214,600 acre-ft (265 hm³) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet)†	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	337.7	299800	-	-
Oct. 31................	336.8	287200	-12600	-205
Nov. 30................	335.3	266900	-20300	-341
Dec. 31................	335.5	269500	+2600	+42
CAL YR 1977	-	-	-16300	-23
Jan. 31................	338.7	314500	+45000	+732
Feb. 28................	334.1	252200	-62300	-1122
Mar. 31................	337.3	294200	+42000	+683
Apr. 30................	339.1	320500	+26300	+442
May 31................	338.6	313000	-7500	-122
June 30................	338.1	305500	-7500	-126
July 31................	338.4	310000	+4500	+73
Aug. 31................	337.1	291400	-18600	-302
Sept. 30................	336.8	287200	-4200	-71
WTR YR 1978	-	-	-12600	-18

† Elevation at 0700 on day following that shown in first column.

02226475 SATILLA RIVER AT WALTERTOWN, GA.

LOCATION.--Lat 31°18'17", long 82°23'33", Ware County, Hydrologic Unit 03070201, at county highway bridge at Waltertown, and 6 mi (10 km) north of Waycross.
PERIOD OF RECORD.--August 1973 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 04...	1245	329	5.0	21.0	21.5	7.4
NOV 02...	0830	130	5.4	18.0	17.0	7.7
DEC 06...	1215	2300	4.8	11.0	14.0	8.1
JAN 10...	1300	1600	4.7	3.0	8.0	9.3
FEB 08...	0900	2110	4.8	.0	4.0	10.8
MAR 07...	1200	2410	4.7	21.5	9.0	9.1
APR 04...	0845	780	5.7	20.0	17.5	7.8
MAY 03...	0750	248	5.4	20.0	19.0	7.3
JUN 06...	1145	115	5.5	29.0	26.0	6.2
JUL 11...	1350	116	5.0	31.0	30.0	5.0
AUG 08...	1345	120	4.9	28.5	27.0	6.1
SEP 11...	0925	16	5.4	21.0	24.0	5.9

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 04...	45	150	7	.9	90	--	<.02	<.02	.05	23
NOV 02...	63	100	5	--	--	--	<.02	<.02	.05	18
DEC 06...	49	180	8	1.9	2100	--	<.02	.09	.04	25
JAN 10...	40	158	10	.8	2300	--	.05	<.02	.03	18
FEB 08...	40	110	7	.9	<30	--	.12	<.02	<.02	13
MAR 07...	37	120	9	2.1	150	--	.02	<.02	.06	18
APR 04...	40	--	10	1.2	<30	--	.07	.05	.07	24
MAY 03...	40	100	8	.7	40	--	.12	.02	--	18
JUN 06...	47	150	8	--	--	--	.16	<.02	.07	17
JUL 11...	46	120	8	1.1	430	1	.07	.02	.04	20
AUG 08...	35	150	10	1.3	50	2	<.02	<.02	.04	18
SEP 11...	38	120	10	1.1	90	5	<.02	<.02	.05	11

02226500 SATILLA RIVER NEAR WAYCROSS, GA.

LOCATION.--Lat 31°14'17", long 82°19'29", Ware-Pierce County line, Hydrologic Unit 03070201, on downstream side of pier near center span of bridge on State Highway 38, 3 mi (4.8 km) northeast of Waycross, and 16 mi (25.7 km) upstream from Alabaha River.

DRAINAGE AREA.--1,200 mi^2 (3,110 km^2), approximately.

PERIOD OF RECORD.--March 1937 to current year.

REVISED RECORDS.--WSP 952: 1939. WSP 1624: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 66.43 ft (20.25 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 22, 1952, nonrecording gage at site 300 ft (91 m) downstream at same datum.

REMARKS.--Records good except those of no gage-height record, July 3-14, which are fair. Records of chemical analyses for the water years 1968-73 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--41 years, 1,029 ft^3/s (29.1 m^3/s), 11.64 in/yr (295.7 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,000 ft^3/s (1,100 m^3/s) Apr. 4, 1948, gage height, 22.4 ft (6.83 m), from floodmark; minimum, 6.0 ft^3/s (0.170 m^3/s) Nov. 3, 4, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, that of Apr. 4, 1948.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,480 ft^3/s (212 m^3/s) Jan. 25, gage height, 16.35 ft (4.983 m); minimum, 14 ft^3/s (0.40 m^3/s) Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	375	173	1900	1950	3510	1840	765	328	131	51	66	53
2	321	143	2050	1820	3400	1600	691	298	171	46	69	50
3	305	124	2160	1740	3310	1760	623	270	150	44	65	50
4	326	143	2390	1690	3190	2210	562	453	157	43	58	45
5	350	266	2690	1660	3030	2540	509	725	174	42	52	43
6	335	286	2970	1610	2860	2790	464	1070	135	42	60	41
7	289	480	2950	1520	2700	2990	420	1390	128	41	141	40
8	258	683	2840	1450	2590	3260	381	1680	143	50	141	38
9	237	827	2710	1460	2590	3610	345	1910	128	70	124	37
10	209	897	2520	1560	2550	4100	313	2100	122	120	139	111
11	179	899	2300	1830	2480	4650	280	2190	133	150	143	60
12	156	873	1980	2160	2400	5600	251	2190	150	120	180	37
13	135	790	1620	2570	2340	6360	286	2140	145	90	309	28
14	122	653	1360	3080	2270	6500	343	1960	124	81	325	24
15	112	514	1300	3540	2150	6230	471	1620	108	83	298	24
16	103	413	1540	3840	2040	5820	707	1270	99	91	277	22
17	94	343	1890	4020	1910	5260	968	981	112	95	297	21
18	87	293	2210	4150	1930	4700	1230	777	133	82	286	20
19	80	257	2430	4670	2200	4310	1460	621	122	77	251	19
20	74	235	2600	5110	2500	4110	1540	525	101	234	198	18
21	68	218	2770	5400	2760	4040	1440	453	86	420	157	17
22	64	202	2870	5720	2990	3850	1170	395	75	316	128	16
23	60	207	2870	6590	3140	3570	884	331	91	223	130	16
24	57	198	2760	7300	3160	3180	670	275	106	158	138	16
25	57	300	2690	7370	3040	2690	525	228	66	120	139	16
26	75	516	2760	6940	2800	2160	496	194	55	99	123	15
27	62	876	2860	6140	2480	1680	470	172	50	85	105	15
28	107	1170	2830	5300	2120	1350	446	161	47	75	89	14
29	184	1290	2630	4620	---	1130	408	199	70	69	76	14
30	182	1390	2370	4070	---	960	366	198	72	83	69	14
31	188	---	2140	3710	---	854	---	160	---	75	61	---
TCTAL	5251	15659	73960	114590	74440	105704	19484	27264	3384	3375	4694	934
MEAN	169	522	2386	3696	2659	3410	649	879	113	109	151	31.1
MAX	375	1390	2970	7370	3510	6500	1540	2190	174	420	325	111
MIN	57	124	1300	1450	1910	854	251	160	47	41	52	14
CFSM	.14	.44	1.99	3.08	2.22	2.84	.54	.73	.09	.09	.13	.03
IN.	.16	.49	2.29	3.55	2.31	3.28	.60	.85	.10	.10	.15	.03

CAL YR 1977 TOTAL 436969 MEAN 1197 MAX 8410 MIN 20 CFSM 1.00 IN 13.55
WTR YR 1978 TOTAL 448739 MEAN 1229 MAX 7370 MIN 14 CFSM 1.02 IN 13.91

02226582 SATILLA RIVER NEAR HOBOKEN, GA.

LOCATION.--Lat 31°13'00", long 82°09'45", Brantley-Pierce County line, Hydrologic Unit 03070201, at bridge on State Highway 121, 3 mi (4.8 km) northeast of Hoboken.
DRAINAGE AREA.--1,350 mi^2 (3,500 km^2), approximately.
PERIOD OF RECORD.--August 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 04...	1400	290	5.7	21.0	22.5	6.2
NOV 02...	1000	143	6.0	18.5	18.0	7.3
DEC 06...	1400	2720	4.8	12.0	14.5	6.8
JAN 10...	1415	1830	5.2	3.0	8.0	9.5
FEB 08...	1015	2900	4.8	4.0	4.0	10.6
MAR 07...	1315	2950	5.1	22.0	9.5	9.4
APR 04...	0745	862	5.8	16.0	18.0	7.0
MAY 03...	0900	402	5.9	20.0	19.5	6.7
JUN 06...	1245	322	5.9	27.0	26.0	5.6
JUL 11...	1445	252	6.1	31.0	30.0	5.2
AUG 08...	1510	168	6.6	29.0	27.5	6.4
SEP 11...	1015	58	6.6	24.0	24.5	6.5

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)
OCT 04...	55	150	9	--	1.0	430
NOV 02...	62	100	5	--	--	--
DEC 06...	47	200	14	--	1.7	930
JAN 10...	45	100	10	--	.8	930
FEB 08...	40	110	7	--	.9	40
MAR 07...	37	120	9	--	1.0	430
APR 04...	41	150	10	--	1.3	90
MAY 03...	52	100	10	--	.6	290
JUN 06...	58	150	10	--	--	--
JUL 11...	60	120	10	48	1.3	1500
AUG 08...	82	165	12	31	2.9	680
SEP 11...	106	100	8	--	.7	930

02226582 SATILLA RIVER NEAR HOBOKEN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
04...	--	61	.10	.09	--	.12	21
NOV							
02...	--	3	.17	.14	--	.17	19
DEC							
06...	--	11	<.02	.15	--	.05	24
JAN							
10...	--	6	.04	<.02	--	.05	15
FEB							
08...	--	<1	.07	<.02	--	.13	16
MAR							
07...	--	15	.03	<.02	--	.05	15
APR							
04...	--	7	.18	.18	--	.11	23
MAY							
03...	--	1	.20	.13	--	.13	18
JUN							
06...	--	11	.39	.24	--	.19	16
JUL							
11...	4	8	.22	.12	1.2	.14	18
AUG							
08...	11	2	.64	.13	.65	.32	10
SEP							
11...	15	<1	.86	.09	--	.40	8.0

02227500 LITTLE SATILLA RIVER NEAR OFFERMAN, GA.

LOCATION.--Lat 31°27'04", long 82°03'17", Pierce-Wayne County line, Hydrologic Unit 03070202, at right bank pier of steel truss span of Seaboard Coast Line Railroad bridge, 1,500 ft (457 m) downstream from bridge on State Highway 38, 4 mi (6.4 km) northeast of Offerman, and 16 mi (26 km) upstream from mouth.
DRAINAGE AREA.--646 mi^2 (1,673 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1951 to current year.
GAGE.--Water-stage recorder. Datum of gage is 58.00 ft (17.68 m) National Geodetic Vertical Datum of 1929. Prior to Nov. 8, 1952, water-stage recorder at site 1,500 ft (457 m) upstream and Nov. 8, 1952, to Sept. 30, 1975, water-stage recorder at present site at datum 1.00 ft (0.30 m) higher.
REMARKS.--Records good except those for below 50 ft^3/s (1.42 m^3/s), which are fair. Records of chemical analyses for the water year 1970 are published in reports of the Geological Survey.
AVERAGE DISCHARGE.--27 years, 515 ft^3/s (14.6 m^3/s), 10.83 in/yr (275.1 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,200 ft^3/s (487 m^3/s) Sept. 29, 1953, gage height, 14.5 ft (4.42 m), present datum; no flow Oct. 10 to Nov. 14, 1954.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,010 ft^3/s (114 m^3/s) Jan. 22, gage height, 10.50 ft (3.200 m); minimum, 1.1 ft^3/s (0.031 m^3/s) Sept. 20, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	304	47	1170	1380	1400	691	287	88	49	4.5	24	1.5
2	302	39	1580	1360	1330	675	253	118	31	4.0	18	7.4
3	334	36	1760	1350	1330	820	223	128	59	5.4	74	114
4	319	37	1760	1390	1290	1070	198	380	84	13	89	165
5	255	118	1750	1390	1220	1360	174	766	97	10	64	71
6	186	231	2040	1290	1130	1540	152	850	118	15	67	30
7	138	288	2010	1180	1060	1520	133	750	174	23	88	31
8	110	329	1860	1110	1010	1530	114	614	201	16	45	31
9	90	302	1640	1170	1030	1650	99	629	245	8.9	35	19
10	78	236	1400	1190	1040	2180	84	612	259	5.7	39	11
11	64	181	1240	1210	1040	3150	73	483	445	4.2	68	11
12	55	158	1070	1170	1020	3450	67	360	800	3.5	88	11
13	48	179	882	1210	967	3280	95	278	1070	3.0	67	8.7
14	42	209	796	1450	911	2930	303	238	771	2.7	106	7.3
15	35	208	830	1730	853	2500	459	200	418	3.2	251	5.3
16	29	175	868	1850	826	2090	425	154	218	5.7	298	3.7
17	23	137	969	1820	818	1800	388	135	149	14	165	2.6
18	19	112	1130	1830	919	1590	410	137	104	9.3	77	1.8
19	16	94	1310	2210	1100	1460	449	144	71	26	53	1.4
20	13	83	1380	2990	1230	1400	383	153	48	70	104	2.0
21	11	72	1340	3610	1310	1310	280	198	32	41	110	1.9
22	9.7	64	1240	3940	1310	1180	212	121	22	19	81	1.2
23	8.8	77	1190	3960	1260	1010	181	87	15	11	52	3.1
24	8.2	108	1140	3770	1160	847	163	117	12	6.6	30	5.3
25	8.2	345	1140	3390	1030	739	145	128	9.7	3.5	20	5.2
26	14	508	1320	2870	902	666	158	137	7.8	2.1	14	3.8
27	56	530	1350	2420	800	557	168	105	6.6	2.0	9.5	2.5
28	129	602	1310	2060	724	464	156	76	5.5	25	6.2	2.0
29	123	650	1280	1840	---	415	126	71	5.1	89	3.9	1.6
30	91	675	1320	1700	---	382	98	57	5.3	73	2.6	1.7
31	64	---	1380	1550	---	332	---	59	---	47	1.8	---
TOTAL	2982.9	6830	41455	61390	30020	44588	6456	8373	5532.0	566.3	2151.0	564.0
MEAN	96.2	228	1337	1980	1072	1438	215	270	184	18.3	69.4	18.8
MAX	334	675	2040	3960	1400	3450	459	850	1070	89	298	165
MIN	8.2	36	796	1110	724	332	67	57	5.1	2.0	1.8	1.2
CFSM	.15	.35	2.07	3.07	1.66	2.23	.33	.42	.29	.03	.11	.03
IN.	.17	.39	2.39	3.54	1.73	2.57	.37	.48	.32	.03	.12	.03

CAL YR 1977 TOTAL 218235.60 MEAN 598 MAX 5030 MIN .54 CFSM .93 IN 12.57
WTR YR 1978 TOTAL 210908.20 MEAN 578 MAX 3960 MIN 1.2 CFSM .90 IN 12.15

02227500 LITTLE SATILLA RIVER NEAR OFFERMAN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 1957 to May 1958, October 1969 to August 1970, April 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
APR					
19...	0930	458	18.5	21	26
MAY					
25...	1600	121	24.5	33	11
JUL					
12...	1200	3.5	31.5	18	.17

02228000 SATILLA RIVER AT ATKINSON, GA.

(National stream-quality accounting network station)

LOCATION.--Lat 31°13'16", long 81°52'03", Brantley County, Hydrologic Unit 03070201, on left bank piling 25 ft (7.6 m) upstream from bridge on U.S. Highway 84, 400 ft (122 m) downstream from Seaboard Coast Line Railroad bridge, and 1 mi (1.6 km) west of Atkinson.

DRAINAGE AREA.--2,790 mi^2 (7,230 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1930 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1504: 1932. WSP 1624: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 14.79 ft (4.51 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 6, 1933, and Nov. 21, 1961, to Sept. 30, 1964, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--48 years, 2,247 ft^3/s (63.6 m^3/s), 10.94 in/yr (277.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,100 ft^3/s (1,930 m^3/s) Apr. 6, 1948, gage height, 23.9 ft (7.28 m); minimum daily, 21 ft^3/s (0.59 m^3/s) Nov. 2-5, 7-13, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, 27.2 ft (8.29 m) in September 1929, from information by Georgia Department of Transportation; discharge, 110,000 ft^3/s (3,120 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,400 ft^3/s (379 m^3/s) Jan. 28, gage height, 16.10 ft (4.907 m); minimum, 66 ft^3/s (1.87 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1720	246	1730	5250	10500	5340	3610	1200	517	213	295	199
2	1610	268	2230	5240	9580	5170	3090	1090	482	205	281	325
3	1460	278	2680	5140	8790	5230	2650	970	458	206	337	373
4	1280	290	3130	5000	8110	5320	2280	999	440	206	317	301
5	1120	368	3630	4820	7510	5270	1990	1120	452	199	310	279
6	978	380	4340	4630	7060	5130	1750	1270	550	188	348	300
7	855	400	4970	4440	6690	5060	1560	1470	595	192	353	249
8	753	505	5420	4330	6370	5260	1390	1700	810	195	348	195
9	675	625	5770	4280	6210	5710	1240	1930	915	191	355	164
10	620	759	6090	4190	5970	6220	1100	2140	882	217	333	152
11	555	885	6330	4080	5690	6660	976	2300	864	276	915	147
12	507	981	6420	3990	5420	7070	874	2420	1100	322	1590	140
13	452	1080	6350	3980	5190	7600	822	2550	1450	329	1740	139
14	412	1190	6210	4000	5020	8550	817	2640	1700	300	1830	153
15	374	1310	5960	4040	4870	9760	815	2670	1880	262	1720	146
16	340	1440	5540	4160	4820	10800	932	2690	2030	238	1460	131
17	306	1510	5000	4430	4730	11500	1120	2700	2060	218	1280	119
18	278	1480	4450	4870	4660	11600	1260	2610	1780	199	1160	110
19	252	1340	4000	5630	4610	11300	1390	2460	1380	193	1020	102
20	228	1140	3750	6760	4570	10700	1520	2270	1000	193	889	95
21	208	945	3710	7820	4530	10100	1620	2030	749	188	843	90
22	190	798	3860	8620	4540	9400	1700	1780	584	192	831	86
23	172	720	4130	9410	4660	8740	1750	1570	479	217	774	83
24	158	690	4410	10500	4860	8130	1810	1340	408	311	669	79
25	151	831	4690	11700	5080	7610	1860	1140	354	385	551	76
26	145	1020	4890	12600	5260	7220	1890	972	316	394	453	73
27	138	1120	5010	13100	5340	6830	1810	865	299	371	385	71
28	134	1210	5060	13300	5360	6280	1670	758	273	387	333	69
29	142	1270	5090	13100	---	5610	1500	652	246	361	294	67
30	186	1370	5130	12500	---	4910	1340	557	226	319	264	67
31	222	---	5190	11500	---	4220	---	516	---	301	231	---
TOTAL	16621	26449	145170	217410	166000	228300	48136	51379	25279	7968	22509	4580
MEAN	536	882	4683	7013	5929	7365	1605	1657	843	257	726	153
MAX	1720	1510	6420	13300	10500	11600	3610	2700	2060	394	1830	373
MIN	134	246	1730	3980	4530	4220	815	516	226	188	231	67
CFSM	.19	.32	1.68	2.51	2.13	2.64	.58	.59	.30	.09	.26	.06
IN.	.22	.35	1.94	2.90	2.21	3.04	.64	.69	.34	.11	.30	.06

CAL YR 1977 TOTAL 926931 MEAN 2540 MAX 15200 MIN 55 CFSM .91 IN 12.36
WTR YR 1978 TOTAL 959801 MEAN 2630 MAX 13300 MIN 67 CFSM .94 IN 12.80

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to current year.
WATER TEMPERATURES: November 1974 to current year.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 105 micromhos July 7, 1977; minimum recorded, 30 micromhos Mar. 16, 1977.
WATER TEMPERATURES: Maximum, 33.5°C July 11-12, 1977; minimum recorded, 5.0°C Feb. 8-10, 1978.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 83 micromhos Sept. 20; minimum recorded, 31 micromhos June 8, 10.
WATER TEMPERATURES: Maximum recorded, 31.5°C Aug. 31; minimum, 5.0°C Feb. 8-10.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 05...	1600	1100	50	4.7	--	23.0	--
NOV 01...	1630	252	52	6.2	25.5	20.0	8.1
DEC 06...	1615	4440	44	4.7	--	17.0	7.8
JAN 18...	1545	4960	45	4.4	15.5	8.0	11.4
FEB 08...	0815	6400	43	4.9	--	5.0	11.3
MAR 07...	1715	5060	40	5.1	--	11.5	10.0
APR 04...	1630	2230	40	5.1	32.0	21.0	6.7
MAY 16...	1515	2690	47	5.8	--	21.5	6.4
JUN 13...	1600	1500	42	5.4	--	27.0	7.1
JUL 18...	1500	195	57	6.2	32.0	28.5	6.8
AUG 01...	1455	294	49	--	--	31.0	6.7
SEP 06...	1450	302	45	6.4	--	28.0	7.1

DATE	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
OCT 05...	--	--	5.0	--	--	27	210	9	6	1.7
NOV 01...	120	6	--	--	--	K50	5100	11	4	2.1
DEC 06...	--	--	6.0	--	--	240	400	9	9	1.7
JAN 18...	135	10	6.0	1.4	150	70	47	7	6	1.4
FEB 08...	--	--	5.0	--	--	K10	27	6	5	1.2
MAR 07...	--	6	7.0	--	--	130	280	--	--	--
APR 04...	200	10	8.0	1.7	40	70	380	6	0	1.3
MAY 16...	--	--	6.0	--	--	53	610	8	3	1.6
JUN 13...	--	--	7.0	--	--	120	K23	7	7	1.5
JUL 18...	120	8	6.0	1.7	<30	K9	K10	13	7	2.5
AUG 01...	--	--	7.0	--	--	50	K5	10	7	2.1
SEP 06...	--	--	2.0	--	--	75	K4	8	8	1.5

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
OCT 05...	1.1	4.0	1.6	4	0	3	6.5	9.1	.0	11
NOV 01...	1.4	6.2	1.7	9	0	7	6.3	8.5	.0	12
DEC 06...	1.1	4.2	1.5	0	0	0	--	--	--	--
JAN 18...	.9	3.8	1.2	1	--	1	5.5	6.5	.0	7.0
FEB 08...	.8	3.2	1.3	2	0	2	7.1	6.2	.0	5.2
MAR 07...	--	--	--	2	0	2	5.5	6.4	.0	2.7
APR 04...	.7	3.6	1.4	9	0	7	6.0	7.8	.0	2.1
MAY 16...	.9	3.5	1.5	6	0	5	7.7	6.4	.0	5.2
JUN 13...	.9	3.9	1.1	1	0	1	6.9	7.1	.0	6.3
JUL 18...	1.6	5.5	1.5	--	--	6	9.3	8.0	.0	6.6
AUG 01...	1.2	4.8	1.2	--	--	3	7.5	7.6	.1	7.1
SEP 06...	1.0	4.6	1.0	--	--	<1	7.9	7.4	.0	8.7

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
OCT 05...	77	.06	.04	--	--	--	--	--	.02	--
NOV 01...	72	.18	<.02	--	--	--	--	--	.10	--
DEC 06...	73	.00	.02	--	--	.77	--	--	.03	.02
JAN 18...	64	.00	.00	--	--	.61	--	--	.02	.02
FEB 08...	53	.01	.00	.57	.57	.46	.58	2.6	.01	.01
MAR 07...	56	.01	.00	.90	.90	.58	.91	4.0	.02	.01
APR 04...	66	.06	.04	.71	.75	.64	.81	3.6	.06	.03
MAY 16...	68	.02	.01	.71	.72	.65	.74	3.3	.05	.03
JUN 13...	78	.12	.01	.87	.88	.62	1.0	4.4	.09	.04
JUL 18...	70	.22	.03	.60	.63	--	.85	3.8	.13	--
AUG 01...	60	.14	.00	.62	.62	.86	.76	3.4	.11	.07
SEP 06...	68	.07	.00	.90	.90	.90	.97	4.3	.08	.04

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C)	PHYTO- PLANK- TON, TOTAL (CELLS PER ML)	PERI- PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI- PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	CHLOR-A PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI- PHYTON CHROMO- GRAPHIC FLUOROM (MG/M2)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 05...	--	11	--	--	--	--	--	26	77	64
NOV 01...	17	--	7600	--	--	--	--	20	14	79
DEC 06...	3.0	--	--	--	--	--	--	12	150	79
JAN 18...	16	14	--	--	--	--	--	44	596	19
FEB 08...	14	--	--	--	--	--	--	6	112	32
MAR 07...	24	--	83	--	--	--	--	12	171	51
APR 04...	26	--	--	2.28	8.27	4.56	0.720	17	102	100
MAY 16...	--	25	340	--	--	--	--	18	134	100
JUN 13...	8.0	--	2800	--	--	--	--	20	81	100
JUL 18...	14	13	8300	--	--	--	--	17	9.0	87
AUG 01...	24	--	5700	--	--	--	--	18	14	100
SEP 06...	18	--	--	--	--	--	--	14	11	86

DATE	ARSENIC TOTAL (UG/L AS AS)	ARSENIC DIS- SOLVED (UG/L AS AS)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM DIS- SOLVED (UG/L AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO)	COBALT, DIS- SOLVED (UG/L AS CO)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU)	COPPER, DIS- SOLVED (UG/L AS CU)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, DIS- SOLVED (UG/L AS FE)
OCT 05...	0	0	0	0	10	0	0	0	4	7	1900	990
JAN 18...	1	1	0	0	10	0	0	0	--	6	560	480
MAY 16...	1	1	0	0	10	0	0	0	2	3	1200	890
JUL 18...	1	1	4	4	10	0	0	0	3	3	1000	390

DATE	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, DIS- SOLVED (UG/L AS PB)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, DIS- SOLVED (UG/L AS MN)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY DIS- SOLVED (UG/L AS HG)	SELE- NIUM, TOTAL (UG/L AS SE)	SELE- NIUM, DIS- SOLVED (UG/L AS SE)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG)	SILVER, DIS- SOLVED (UG/L AS AG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, DIS- SOLVED (UG/L AS ZN)
OCT 05...	3	1	40	40	<.5	<.5	0	0	0	0	20	20
JAN 18...	8	4	30	30	<.5	<.5	0	0	0	0	20	20
MAY 16...	13	--	30	30	<.5	<.5	0	0	0	0	30	10
JUL 18...	21	14	30	30	.5	.5	0	0	0	0	20	20

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
MAR 07...	0	0	1	52	96	99	100

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	53	47	---	---	53	49	46	45	39	38	40	38
2	55	48	---	---	52	48	47	45	39	38	39	38
3	52	46	---	---	51	45	48	46	40	39	39	37
4	52	44	---	---	50	43	48	46	40	39	39	38
5	50	44	---	---	46	41	47	45	41	39	40	37
6	53	44	---	---	45	39	48	46	42	40	41	37
7	55	46	---	---	44	35	47	45	43	42	41	39
8	54	45	---	---	51	35	48	45	43	42	41	40
9	56	50	---	---	52	49	48	45	42	41	41	40
10	57	48	---	---	51	51	48	46	42	40	42	41
11	55	47	---	---	53	50	49	47	43	39	43	39
12	54	52	---	---	52	50	48	46	43	40	42	40
13	57	52	---	---	51	48	48	47	43	41	42	39
14	63	52	---	---	49	47	48	47	45	42	42	39
15	64	53	---	---	48	47	49	47	45	43	41	38
16	65	53	---	---	49	47	48	45	44	43	40	37
17	67	55	---	---	48	47	47	45	44	42	39	37
18	67	53	---	---	49	47	43	41	44	42	38	36
19	65	52	---	---	50	47	42	39	43	39	38	35
20	66	53	---	---	51	47	42	39	44	40	37	35
21	64	53	---	---	50	48	42	39	44	40	37	35
22	62	53	---	---	49	46	42	40	44	42	38	34
23	66	55	---	---	48	45	42	41	44	41	37	34
24	---	---	---	---	47	44	42	39	43	41	37	35
25	---	---	---	---	45	44	41	39	43	39	37	35
26	---	---	---	---	47	45	42	40	41	39	37	36
27	---	---	---	---	47	44	42	39	41	39	38	36
28	---	---	61	52	48	46	41	39	40	39	38	36
29	---	---	60	52	47	44	40	38	---	---	39	36
30	---	---	55	50	46	45	40	37	---	---	38	36
31	---	---	---	---	46	44	39	37	---	---	39	35
MONTH	67	44	61	50	53	35	49	37	45	38	43	34

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	40	37	42	39	42	35	---	---	54	51	56	53
2	40	38	42	40	46	38	---	---	52	50	56	42
3	41	38	42	40	42	35	---	---	53	51	44	40
4	42	39	41	38	52	36	---	---	53	51	45	43
5	40	39	40	38	58	48	---	---	52	50	47	45
6	40	38	39	37	47	37	---	---	53	50	48	45
7	41	39	39	37	38	32	---	---	53	49	51	47
8	41	39	40	38	38	31	---	---	52	49	53	50
9	42	40	39	37	38	33	---	---	52	49	53	50
10	43	41	38	36	40	31	---	---	53	50	55	52
11	44	41	38	35	42	37	---	---	53	48	56	53
12	44	41	40	35	47	33	---	---	53	47	57	52
13	44	42	45	40	46	41	---	---	52	47	56	51
14	44	42	49	44	---	---	---	---	49	43	58	53
15	45	42	50	45	---	---	---	---	53	46	63	58
16	44	41	50	46	---	---	---	---	51	44	66	61
17	45	42	48	44	---	---	---	---	51	44	70	61
18	46	44	48	44	---	---	---	---	51	44	78	66
19	45	41	48	43	45	41	---	---	53	46	81	60
20	43	40	47	41	46	42	---	---	55	48	83	60
21	42	40	45	39	46	42	---	---	48	41	76	58
22	42	39	43	39	45	40	---	---	49	43	70	55
23	41	38	44	39	48	41	---	---	48	39	72	53
24	40	38	45	39	51	44	---	---	40	34	68	57
25	40	37	45	40	54	47	---	---	41	36	68	52
26	40	38	44	39	---	---	---	---	43	37	63	55
27	40	37	46	40	---	---	63	60	46	41	80	64
28	40	36	46	39	---	---	61	53	48	41	---	---
29	40	37	46	40	---	---	53	49	51	43	---	---
30	41	39	42	36	67	---	52	49	55	44	---	---
31	---	---	43	36	---	---	54	52	54	44	---	---
MONTH	46	36	50	35	67	31	63	49	55	34	83	40

02228000 SATILLA RIVER AT ATKINSON, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	26.0	25.5	21.0	20.0	16.5	16.0	9.5	8.5	7.0	7.0	11.0	10.5
2	26.5	25.5	21.0	20.0	16.5	16.0	9.5	9.5	7.0	7.0	11.0	11.0
3	26.0	25.0	20.5	20.0	17.0	16.0	9.5	8.5	7.0	7.0	11.5	11.0
4	25.5	24.5	21.5	20.5	17.0	16.0	9.0	8.5	6.5	6.5	11.0	11.0
5	24.5	23.0	22.0	21.5	16.5	16.0	8.5	8.5	6.5	6.5	10.5	9.5
6	23.0	22.5	22.0	22.0	16.5	16.0	9.5	8.5	6.5	6.5	9.5	9.0
7	23.0	22.5	22.0	22.0	16.5	15.0	10.5	9.5	6.5	6.0	9.5	9.0
8	23.0	22.5	22.0	21.5	15.5	13.0	11.5	10.5	6.0	5.0	10.0	10.0
9	23.5	22.5	21.5	21.5	12.5	12.0	11.5	11.0	5.0	5.0	10.5	10.5
10	23.5	23.0	21.5	20.5	12.0	11.0	11.0	9.0	5.5	5.0	10.5	10.5
11	24.0	23.5	20.0	18.0	11.5	10.0	9.0	7.5	6.0	5.5	11.0	10.5
12	24.0	23.5	18.0	16.5	10.0	9.5	8.0	7.0	6.5	6.0	11.5	10.5
13	23.5	20.5	16.5	15.0	10.0	9.5	7.5	7.0	8.0	6.5	13.5	11.5
14	20.5	19.5	15.0	14.0	11.5	10.0	7.0	7.0	8.5	8.0	14.0	13.5
15	19.5	19.0	14.0	13.5	12.5	11.5	7.0	6.5	9.0	8.5	15.0	14.5
16	19.5	19.5	13.5	13.5	13.5	12.5	8.0	7.0	9.0	9.0	16.0	15.5
17	19.5	18.5	14.5	13.5	13.5	13.0	7.0	6.0	9.0	9.0	16.5	16.0
18	18.5	17.5	15.0	14.5	14.5	13.5	8.0	7.0	9.0	9.0	16.0	15.0
19	19.5	18.5	15.0	15.0	14.5	14.5	8.5	8.0	9.5	9.0	15.5	14.5
20	19.5	18.5	16.0	15.0	14.5	13.5	9.0	8.5	9.5	9.5	15.0	14.5
21	19.5	19.0	17.0	16.0	13.5	13.5	9.0	9.0	9.5	9.5	16.0	15.0
22	20.0	19.5	18.0	17.0	13.5	12.0	9.0	8.5	9.5	9.0	17.5	16.0
23	20.5	20.0	18.5	18.0	12.0	10.5	8.5	8.5	9.0	8.5	18.0	17.5
24	21.0	20.5	19.0	18.5	10.5	10.5	9.0	8.5	9.0	8.5	19.0	18.5
25	21.5	21.0	20.0	19.0	10.5	10.5	10.0	8.5	8.5	8.5	19.5	19.0
26	22.5	21.5	20.0	17.5	10.5	10.0	10.5	10.0	9.5	8.5	20.0	19.5
27	22.5	22.0	17.5	16.0	10.0	9.0	10.5	10.0	10.0	9.5	20.0	20.0
28	22.0	22.0	16.0	15.0	9.0	8.0	9.5	9.0	10.5	10.0	20.0	18.5
29	22.0	22.0	16.0	15.0	8.0	7.5	8.5	8.0	---	---	18.5	18.0
30	22.0	21.5	16.0	15.5	7.5	7.5	7.5	7.0	---	---	18.5	18.0
31	22.0	21.0	---	---	8.5	7.5	7.0	7.0	---	---	18.5	18.5
MONTH	26.5	17.5	22.0	13.5	17.0	7.5	11.5	6.0	10.5	5.0	20.0	9.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	19.5	18.5	21.0	20.5	25.5	24.5			---	---	31.0	31.0
2	20.0	19.5	22.0	21.0	25.5	25.5			---	---	31.0	29.5
3	21.0	20.0	21.5	21.5	26.0	26.0			---	---	29.5	29.5
4	21.0	21.0	21.5	21.5	26.0	25.5			---	---	29.0	29.0
5	21.5	21.0	22.5	21.5	26.0	25.5			---	---	29.0	29.0
6	21.5	21.5	22.5	22.0	26.5	26.0			---	---	28.5	28.0
7	22.5	21.5	22.5	22.5	27.0	26.5			---	---	28.0	27.5
8	23.0	22.0	22.5	22.0	27.5	27.0			---	---	28.0	27.5
9	23.5	23.0	22.5	22.5	27.5	27.5			---	---	28.0	28.0
10	23.5	23.0	23.0	22.5	27.5	27.5			---	---	28.0	28.0
11	23.5	23.5	23.0	23.0	27.5	27.5			28.5	27.5	28.0	27.5
12	23.5	23.5	23.0	23.0	27.5	27.0			27.5	27.0	27.5	27.5
13	23.0	22.5	22.5	22.5	27.0	27.0			27.0	26.5	28.0	27.5
14	22.5	22.0	22.5	22.0	27.0	27.0			26.5	26.0	---	---
15	22.0	21.5	22.0	22.0	26.5	26.5			26.0	26.0	---	---
16	22.0	22.0	21.5	21.5	26.5	26.0			26.5	26.5	---	---
17	22.0	22.0	21.0	21.0	26.0	25.5			28.0	27.0	---	---
18	22.0	21.5	20.5	20.5	25.5	25.5			28.5	28.0	---	---
19	21.5	20.5	20.0	20.0	25.5	25.0			28.5	28.5	---	---
20	21.0	20.5	20.0	20.0	25.0	25.0			29.0	29.0	---	---
21	21.0	21.0	19.5	19.5	25.5	25.0			29.0	29.0	---	---
22	21.0	20.0	20.0	19.5	26.0	25.5			29.5	29.5	---	---
23	20.0	19.5	20.5	19.5	26.5	26.0			29.5	29.5	---	---
24	20.0	20.0	20.5	20.0	26.5	26.5			29.5	29.5	---	---
25	20.0	20.0	21.0	20.5	27.0	26.5			29.5	29.5	---	---
26	20.0	19.5	21.0	20.5	27.5	27.0			30.0	29.5	---	---
27	20.0	19.0	22.5	21.5	28.0	27.5			30.0	30.0	---	---
28	19.0	19.0	22.5	22.5	28.5	28.0			30.0	30.0	---	---
29	20.0	19.0	23.0	23.0	---	---			30.5	30.5	---	---
30	21.0	20.0	23.5	23.0	---	---			31.0	31.0	---	---
31	---	---	24.5	23.5	---	---			31.5	31.0	---	---
MONTH	23.5	18.5	24.5	19.5	28.5	24.5			31.5	26.0	31.0	27.5
YEAR	31.5	5.0										

02228500 NORTH PRONG ST. MARYS RIVER AT MONIAC, GA.

LOCATION.--Lat 30°31'03", long 82°13'50", in NW¼ sec.8, T.1 N., R.21 E., Baker County, Fla.-Charlton County, Ga., Hydrologic Unit 03070204, near right bank at upstream side of bridge on State Highways 2 and 94, 0.2 mi (0.3 km) upstream from Georgia Southern & Florida Railway bridge, 0.4 mi (0.6 km) west of Moniac, 1.0 mi (1.6 km) downstream from Moccasin Creek, and 122 mi (196 km) upstream from mouth of St. Marys River.

DRAINAGE AREA.--160 mi^2 (410 km^2), approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

PERIOD OF RECORD.--January 1921 to December 1923 (published as St. Marys River at Moniac), January 1927 to June 1930, July 1932 to June 1934, October 1950 to current year.

REVISED RECORDS.--WSP 1234: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 89.40 ft (27.249 m) National Geodetic Vertical Datum of 1929. January 1921 to June 1934, nonrecording gage at site 800 ft (240 m) downstream at datum 3.22 ft (0.981 m) higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--33 years (1922-23, 1928-29, 1933, 1951-78), 165 ft^3/s (4.67 m^3/s), 14.00 in/yr (356 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,600 ft^3/s (329 m^3/s) Apr. 5, 1973, gage height, 22.98 ft (7.004 m); no flow for many days in some years; minimum gage height, 3.62 ft (1.103 m) June 6, 1955.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,010 ft^3/s (28.6 m^3/s) Jan. 20, gage height, 11.66 ft (3.554 m); minimum, 1.8 ft^3/s (0.051 m^3/s) Sept. 29, gage height, 4.58 ft (1.396 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	507	24	464	188	205	255	108	28	113	30	20	45
2	432	23	826	180	250	358	97	34	103	27	28	53
3	356	23	840	165	300	519	88	35	92	24	41	73
4	293	25	781	150	425	717	80	200	95	22	34	69
5	237	32	773	140	400	608	73	455	104	31	28	51
6	198	37	918	133	350	512	66	404	109	30	24	42
7	168	36	818	126	300	445	60	321	97	27	21	36
8	147	35	673	126	264	432	55	284	89	23	21	32
9	129	35	572	176	400	626	51	256	88	21	24	28
10	121	35	497	180	600	709	47	289	116	18	22	25
11	112	33	421	158	500	650	43	236	198	15	30	23
12	101	31	362	145	450	561	40	169	209	13	40	20
13	92	30	319	165	390	492	49	133	168	17	57	18
14	84	28	308	209	330	485	84	132	138	33	51	15
15	76	27	359	185	297	763	88	133	124	37	50	14
16	68	26	345	163	270	855	78	128	115	35	120	12
17	62	26	322	162	350	784	69	193	105	41	97	10
18	56	25	343	197	450	638	63	191	91	79	138	8.6
19	51	24	343	383	600	539	67	156	77	91	218	7.3
20	47	23	293	960	750	466	71	139	67	74	347	6.1
21	44	22	274	890	600	408	64	123	59	64	350	5.4
22	41	22	267	753	450	360	56	104	53	50	305	4.7
23	39	684	230	684	320	318	50	88	48	40	253	4.0
24	38	600	204	600	285	279	46	78	44	34	209	3.3
25	36	177	207	520	240	244	43	242	42	33	167	2.9
26	34	159	254	492	210	217	40	283	39	27	137	2.7
27	31	135	236	400	189	191	37	194	36	24	111	2.6
28	29	116	208	350	180	167	35	151	33	23	90	2.3
29	28	106	188	300	---	149	32	117	35	23	75	2.0
30	26	102	180	255	---	133	30	98	34	21	63	1.9
31	25	---	188	224	---	120	---	86	---	21	53	---
TOTAL	3708	2701	13013	9759	10355	14000	1810	5480	2721	1048	3224	619.8
MEAN	120	90.0	420	315	370	452	60.3	177	90.7	33.8	104	20.7
MAX	507	684	918	960	750	855	108	455	209	91	350	73
MIN	25	22	180	126	180	120	30	28	33	13	20	1.9
CFSM	.75	.56	2.63	1.97	2.31	2.83	.38	1.11	.57	.21	.65	.13
IN.	.86	.63	3.03	2.27	2.41	3.25	.42	1.27	.63	.24	.75	.14

CAL YR 1977 TOTAL 81026.58 MEAN 222 MAX 1300 MIN .00 CFSM 1.39 IN 18.84
WTR YR 1978 TOTAL 68438.80 MEAN 188 MAX 960 MIN 1.9 CFSM 1.18 IN 15.91

02231000 ST MARYS RIVER NEAR MACCLENNY, FLA.
(National stream-quality accounting network station)

LOCATION.--Lat 30°21'31", long 82°04'54", in NW¼ sec.2, T.2 S., R.22 E., Baker County, Fla.-Charlton County, Ga., Hydrologic Unit 03070204, on right bank 200 ft (60 m) downstream from site of former Stokes Bridge, 1 mi (2 km) downstream from confluence of North and South Prongs, 6 mi (10 km) northeast of Macclenny, and 100 mi (161 km) upstream from mouth.
DRAINAGE AREA.--700 mi^2 (1,810 km^2), approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1926 to current year.
REVISED RECORDS.--WSP 1082: 1928(M), 1945(M). WSP 1142: 1928, 1945. WSP 1434: 1927. WSP 1905: Drainage area.
GAGE.--Water-stage recorder. Datum of gage is 40.00 ft (12.192 m) National Geodetic Vertical Datum of 1929 (levels by Mees and Mees). Prior to Feb. 21, 1939, nonrecording gage and Feb. 21, 1939, to Aug. 15, 1948, water-stage recorder, at site of former bridge 200 ft (60 m) upstream at same datum.
REMARKS.--Records good.
AVERAGE DISCHARGE.--52 years, 683 ft^3/s (19.34 m^3/s), 13.25 in/yr (337 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 28,100 ft^3/s (796 m^3/s) Sept. 25, 1947, maximum gage height, 23.25 ft (7.087 m) Sept. 13, 1964, from floodmark; minimum discharge observed, 12 ft^3/s (0.34 m^3/s) May 22, 1932; minimum gage height observed, 0.04 ft (0.012 m) June 4, 5, 1927.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*).

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft))	Gage height (m)
Dec. 7	2400	2930	83.0	12.83	3.911	Mar. 5	1400	2710	76.7	12.52	3.816
Jan. 22	0300	3340	94.6	13.32	4.060	May 5	0300	*4590	130	14.59	4.447
Feb. 20	1400	2290	64.9	11.78	3.590						

Minimum discharge, 36 ft^3/s (1.02 m^3/s) Sept. 30; minimum gage height, 1.38 ft (0.421 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1470	101	425	889	1030	1100	449	100	440	97	98	191
2	1420	98	1460	870	995	1240	408	99	397	81	221	162
3	1290	95	2160	832	1090	1440	371	103	415	72	571	157
4	1100	98	2480	777	1150	2180	339	829	460	67	685	167
5	922	123	2340	722	1090	2700	309	3360	575	67	587	155
6	786	148	2390	674	999	2550	282	4370	700	88	527	131
7	679	144	2770	633	920	2220	256	3820	669	85	483	117
8	593	131	2870	605	856	1980	232	3330	527	73	497	104
9	519	121	2630	768	1020	2090	212	3000	454	66	480	94
10	486	114	2350	964	1430	2480	194	2550	441	61	448	85
11	457	107	2050	951	1550	2690	176	2130	471	58	452	77
12	414	101	1820	876	1440	2560	162	1810	665	55	600	71
13	373	96	1620	857	1310	2260	158	1550	730	54	722	68
14	339	92	1470	1020	1190	1980	245	1340	638	65	799	64
15	308	88	1400	1130	1080	2080	329	1140	502	80	828	60
16	280	85	1350	1060	1060	2520	291	950	405	83	812	57
17	251	83	1270	984	1430	2680	248	833	334	90	824	53
18	225	82	1200	1010	1710	2530	214	776	287	114	799	50
19	203	80	1180	1150	2000	2110	213	695	240	330	1120	48
20	184	77	1130	2010	2300	1750	315	642	204	510	1590	45
21	169	74	1040	2990	2220	1510	308	593	178	415	1570	43
22	157	72	970	3290	2010	1340	244	509	159	314	1310	42
23	147	80	911	2980	1820	1180	202	428	145	235	1080	41
24	139	211	841	2620	1640	1050	175	400	134	179	890	39
25	132	338	804	2330	1470	931	158	519	123	144	747	38
26	127	331	952	2060	1330	838	145	928	113	128	618	38
27	122	301	1100	1850	1190	755	134	1000	104	128	503	38
28	119	267	1060	1650	1060	679	125	804	95	124	410	39
29	115	239	976	1460	---	612	116	638	86	113	339	37
30	111	224	912	1300	---	551	107	512	85	111	282	36
31	106	---	891	1150	---	497	---	455	---	102	231	---
TOTAL	13743	4201	46822	42462	38390	53083	7117	40213	10776	4189	21123	2347
MEAN	443	140	1510	1370	1371	1712	237	1297	359	135	681	78.2
MAX	1470	338	2870	3290	2300	2700	449	4370	730	510	1590	191
MIN	106	72	425	605	856	497	107	99	85	54	98	36
CFSM	.63	.20	2.16	1.96	1.96	2.45	.34	1.85	.51	.19	.97	.11
IN.	.73	.22	2.49	2.26	2.04	2.82	.38	2.14	.57	.22	1.12	.12

CAL YR 1977 TOTAL 255418 MEAN 700 MAX 3290 MIN 24 CFSM 1.00 IN 13.57
WTR YR 1978 TOTAL 284466 MEAN 779 MAX 4370 MIN 36 CFSM 1.11 IN 15.12

02231000 ST. MARYS RIVER NEAR MACCLENNY, FLA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1965 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1965 to December 1969, January 1974 to current year.
WATER TEMPERATURES: March 1965 to October 1969, October 1970, January 1974 to September 1976.
REMARKS.--Extremes may have been exceeded during periods of missing record.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
03...	1200	1295	45	4.1	24.5	6.5
NOV						
02...	1235	85	--	6.6	19.0	7.2
29...	1200	210	50	5.0	16.0	9.7
DEC						
29...	1300	930	47	4.4	8.0	11.2
JAN						
30...	1300	1328	52	4.0	6.0	12.7
FEB						
22...	1230	2000	42	3.9	8.5	10.2
MAR						
21...	1330	2175	38	3.8	14.5	8.8
APR						
18...	1330	217	36	4.8	22.0	--
MAY						
16...	1330	935	36	3.8	21.5	6.4
JUN						
13...	1230	736	35	4.4	26.5	6.5
JUL						
11...	1100	60	55	6.4	30.0	5.9
AUG						
16...	1345	701	--	4.4	27.5	5.8
SEP						
08...	1300	107	--	5.4	28.0	6.5

DATE	TUR-BID-ITY (JTU)	TUR-BID-ITY (NTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)
OCT										
03...	1	--	--	35	20	6	6	1.2	.7	2.2
NOV										
02...	2	--	2.5	K20	120	16	3	3.4	1.9	4.0
29...	2	--	--	55	--	10	8	2.2	1.2	4.0
DEC										
29...	3	--	--	--	--	7	7	1.5	.8	4.0
JAN										
30...	4	--	--	50	15	6	6	1.5	.6	3.4
FEB										
22...	--	6.0	--	60	55	7	7	1.5	.7	3.3
MAR										
21...	--	5.0	--	44	12	4	4	.9	.5	2.8
APR										
18...	--	2.0	--	160	28	10	4	2.3	1.1	3.4
MAY										
16...	--	2.0	--	320	28	6	4	1.4	.7	2.7
JUN										
13...	--	2.0	--	400	40	8	4	1.8	.8	2.7
JUL										
11...	--	2.0	--	150	15	20	8	4.4	2.1	4.0
AUG										
16...	--	4.0	--	70	13	9	9	2.4	.8	3.0
SEP										
08...	--	3.0	--	100	70	11	4	2.4	1.3	3.4

02231000 ST. MARYS RIVER NEAR MACCLENNY, FLA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)
OCT										
03...	.4	0	0	13	5.9	.0	5.7	101	--	--
NOV										
02...	.6	16	13	7.4	7.4	.0	9.0	88	.05	.02
29...	.4	3	2	7.6	7.8	.0	7.1	75	.00	.02
DEC										
29...	.2	0	0	6.8	6.8	.0	6.5	64	.00	.01
JAN										
30...	.2	0	0	8.4	6.6	.0	4.9	71	.02	.01
FEB										
22...	.3	0	0	6.1	5.1	.0	3.7	44	.08	.03
MAR										
21...	.2	0	0	7.0	4.5	.0	2.8	67	.00	.02
APR										
18...	.5	8	7	7.9	1.7	.0	4.6	80	.04	.01
MAY										
16...	.4	3	2	10	6.5	.0	2.7	75	.00	.02
JUN										
13...	.5	--	4	--	--	--	--	--	.02	.02
JUL										
11...	.7	--	12	6.1	6.7	.0	6.8	72	.05	.01
AUG										
16...	.5	--	0	9.0	6.1	.0	5.7	109	.00	.02
SEP										
08...	.5	--	7	5.8	6.2	.1	6.3	76	.04	.01

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	CARBON, TOTAL (MG/L AS C)
OCT										
03...	--	--	--	--	--	--	--	--	--	--
NOV										
02...	.07	.05	.50	.55	--	.62	2.7	.05	--	26
29...	.02	.05	.65	.70	--	.72	3.2	.04	--	--
DEC										
29...	.01	.04	.54	.58	--	.59	2.6	.02	--	23
JAN										
30...	.03	.05	.74	.79	.46	.82	3.6	.03	.02	54
FEB										
22...	.11	.04	.34	.38	.44	.49	2.2	.03	.02	--
MAR										
21...	.02	.05	.66	.71	--	.73	3.2	.02	.02	62
APR										
18...	.05	.04	1.3	1.3	.67	1.3	6.2	.07	.06	29
MAY										
16...	.02	.10	.77	.87	.75	.89	3.9	.03	.02	--
JUN										
13...	.04	.07	.91	.98	.93	1.0	4.5	.03	.03	34
JUL										
11...	.06	.03	.55	.58	.47	.64	2.8	.05	.04	20
AUG										
16...	.02	.05	.75	.80	.80	.82	3.6	.04	.03	--
SEP										
08...	.05	.06	.60	.66	.60	.71	3.1	.04	.03	--

02231000 ST. MARYS RIVER NEAR MACCLENNY, FLA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)	CARBON, INOR-GANIC, TOTAL (MG/L AS C)	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	CHLOR-A PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	CHLOR-B PERI-PHYTON CHROMO-GRAPHIC FLUOROM (MG/M2)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)
OCT										
03...	--	--	--	3500	--	--	--	--	7	24
NOV										
02...	23	--	3.0	76	--	--	3.02	.930	7	1.6
29...	--	--	--	160	--	--	--	--	3	1.7
DEC										
29...	22	--	1.0	--	--	--	--	--	4	10
JAN										
30...	50	--	4.0	--	.079	.315	.000	.000	3	11
FEB										
22...	--	21	--	--	--	--	--	--	5	27
MAR										
21...	59	--	3.0	--	--	--	--	--	3	18
APR										
18...	27	--	2.0	690	--	--	--	--	8	4.7
MAY										
16...	--	44	--	--	--	--	--	--	6	15
JUN										
13...	32	--	2.0	57	--	--	--	--	3	6.0
JUL										
11...	18	--	2.0	400	--	--	--	--	--	--
AUG										
16...	--	34	--	520	31.8	50.6	19.8	1.69	5	9.5
SEP										
08...	22	--	--	--	--	--	--	--	7	2.0

DATE	PCB, TOTAL (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, TOTAL (UG/L)	DDE, TOTAL (UG/L)	DDT, TOTAL (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)
NOV												
02...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB												
22...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY												
16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SEP												
08...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	LINDANE TOTAL (UG/L)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)	SIMA-ZINE TOTAL COUL-SON COND. (UG/L)
NOV												
02...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FEB												
22...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY												
16...	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	ND
SEP												
08...	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--

02231000 ST. MARYS RIVER NEAR MACCLENNY, FLA.—Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-AZINON, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ETHION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)
NOV 02...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 16...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DATE	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA-THION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRI-THION, TOT. IN BOTTOM MATL. (UG/KG)	PARA-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TRI-THION, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4-D, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	2,4,5-T TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SILVEX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	SIMA-ZINE IN BOTTOM MATERI-AL (UG/KG DRY SOLIDS)
NOV 02...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAY 16...	ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
ONCE-DAILY

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	51	36	45	44	37	36	46	36	45	36	38
2	46	48	43	46	42	37	36	46	36	44	---	38
3	46	50	44	46	45	36	35	45	36	51	38	38
4	45	50	45	45	45	32	36	27	35	51	---	38
5	50	50	44	45	45	33	38	28	35	51	38	37
6	46	50	42	45	45	34	36	28	36	56	38	36
7	46	50	43	45	44	34	36	29	36	46	38	38
8	46	50	44	45	44	34	36	30	36	50	37	40
9	45	58	46	43	43	34	40	31	36	54	38	44
10	44	57	46	44	43	35	40	32	35	56	38	43
11	48	58	46	45	44	39	38	33	35	71	38	46
12	45	50	46	45	45	34	38	33	35	71	38	46
13	50	50	47	45	45	34	39	34	36	58	39	49
14	43	50	48	44	45	34	38	35	36	59	39	50
15	41	54	47	45	45	34	42	36	35	54	39	52
16	41	52	49	46	44	34	40	37	36	52	38	54
17	42	52	49	45	42	35	40	38	36	52	38	55
18	41	52	49	46	42	35	38	38	34	56	40	58
19	42	56	48	45	42	36	36	38	34	50	38	60
20	42	59	48	38	42	35	38	37	35	42	36	61
21	41	61	48	40	42	35	38	37	35	44	40	64
22	46	56	48	41	42	36	39	37	36	46	40	65
23	44	61	48	42	42	36	39	36	37	44	41	65
24	50	46	46	43	43	35	40	36	39	44	41	67
25	50	46	45	44	43	35	38	36	40	43	41	70
26	46	48	45	44	44	35	40	37	41	43	41	72
27	48	46	44	44	44	35	41	38	43	42	40	74
28	47	44	46	45	43	34	42	39	44	43	40	70
29	53	48	46	45	---	36	42	39	44	43	39	75
30	49	45	46	45	---	33	48	38	51	44	39	73
31	44	---	46	44	---	33	---	37	---	---	39	---
MEAN	46	52	46	44	44	35	39	36	37	50	39	54

WTR YR 1978 MEAN 43 MAX 75 MIN 27

02231220 ST. MARYS RIVER AT BOULOGNE, FLA.

LOCATION.--Lat 30°46'35", long 81°58'44", Nassau County, Fla.-Charlton County, Ga., Hydrologic Unit 03070204, at bridge on U.S. Highways 1, 23, and 301, at Boulogne.

DRAINAGE AREA.--1,180 mi^2 (3,060 km^2), approximately; includes part of watershed in Okefenokee Swamp, which is indeterminate.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT					
04...	1530	4.2	22.0	23.5	5.4
NOV					
02...	1200	6.4	20.5	19.0	6.2
DEC					
06...	1500	4.7	13.0	15.0	7.7
FEB					
08...	1100	4.5	7.0	5.0	10.8
MAR					
07...	1425	4.9	22.0	11.5	9.2
MAY					
03...	1015	6.5	23.5	21.5	6.3
JUN					
06...	1400	5.0	28.5	25.5	6.4
JUL					
12...	0730	6.7	28.0	31.0	5.2
AUG					
09...	0700	5.4	27.0	29.0	6.3
SEP					
11...	1115	6.0	26.5	27.0	5.2

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT											
04...	44	280	4	1.2	90	--	<.02	.03	.02	38	8.0
NOV											
02...	67	220	<5	--	--	--	.08	.06	.03	25	5.7
DEC											
06...	47	320	8	2.1	230	--	<.02	.10	.03	29	5.7
FEB											
08...	47	200	5	.8	<30	--	<.02	.02	<.02	20	4.8
MAR											
07...	40	200	9	2.2	430	--	.03	<.02	.07	25	5.0
MAY											
03...	58	200	5	1.2	1500	--	.07	.02	.18	27	4.8
JUN											
06...	42	240	5	--	--	--	.16	<.02	.05	31	6.0
JUL											
12...	75	180	5	1.1	230	15	.17	.04	.03	21	2.1
AUG											
09...	43	350	7	2.2	90	4	<.02	<.02	.05	27	4.9
SEP											
11...	56	240	5	.4	230	13	.10	.03	.04	25	4.3

02314500 SUWANNEE RIVER AT FARGO, GA.

LOCATION.--Lat 30 40'50", long 82 33'38", Clinch County, Hydrologic Unit, 03110201, on downstream side of right bank pier of bridge on U.S. Highway 441 at Fargo, 4 mi (6.4 km) upstream from Suwannoochee Creek, and 12 mi (19 km) downstream from Mixons Ferry damsite.

DRAINAGE AREA.--About 1,260 mi^2 (3,260 km^2), includes part of watershed in Okefenokee Swamp, which is indeterminate.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1921 to September 1923 (gage heights only), January 1927 to December 1931, April 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 1234: Drainage area. WSP 1504: 1928-30.

GAGE.--Water-stage recorder. Datum of gage is 91.90 ft (28.01 m) National Geodetic Vertical Datum of 1929. Jan. 27, 1921 to Sept. 30, 1923, nonrecording gage at site 1,200 ft (366 m) upstream at datum 3.00 ft (0.914 m) higher. Jan. 27, 1927 to Dec. 31, 1931 and Apr. 20 1937 to June 10, 1938, nonrecording gage at site 1,000 ft (305 m) upstream at datum 1.00 ft (0.305 m) higher, June 11, 1938 to Nov. 26, 1952, nonrecording gage at site 1,000 ft (0.305 m) upstream at present datum. Oct. 14, 1960 to Oct. 29, 1970, auxiliary water-stage recorder at site about 3 mi (4.8 km) upstream and since Nov. 5, 1971, auxiliary water-stage recorder at site about 2 mi (3.2 km) upstream.

REMARKS.--Records good. Natural flow during September affected by manipulation of water level at Mixons Ferry Dam.

AVERAGE DISCHARGE.--45 years (1927-31, 1937-78), 1,108 ft^3/s (31.4 m^3/s), 11.94 in/yr (303.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,800 ft^3/s (391 m^3/s) Oct. 1, 5, 6, 1928; maximum gage height, 21.01 ft (6.404 m) Apr. 9, 1973; no flow at times in 1931, 1943, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,200 ft^3/s (90.6 m^3/s) Mar. 17; maximum gage height, 12.12 ft (3.694 m) Mar. 17; minimum discharge, 6.5 ft^3/s (0.184 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	371	108	259	1600	2610	2030	2120	497	461	178	87	79
2	378	106	469	1620	2620	2010	2010	477	431	163	79	77
3	369	106	648	1610	2620	2080	1910	456	481	153	85	71
4	356	107	761	1580	2610	2160	1790	539	586	142	81	72
5	344	115	844	1540	2580	2220	1680	632	672	135	78	75
6	334	132	928	1510	2530	2230	1580	640	733	127	75	72
7	324	132	1020	1490	2460	2220	1410	632	777	120	74	69
8	314	129	1040	1450	2400	2230	1180	634	808	115	73	67
9	304	127	1130	1440	2390	2320	958	636	832	112	74	64
10	293	126	1140	1440	2370	2480	835	638	895	103	80	62
11	282	125	1150	1460	2350	2600	769	631	1030	98	86	62
12	269	123	1150	1490	2310	2660	729	614	1030	95	99	61
13	206	121	1149	1510	2270	2680	757	599	974	107	111	61
14	148	119	1150	1540	2220	2740	812	640	905	117	113	61
15	145	117	1190	1560	2170	2890	814	648	825	120	109	62
16	145	115	1250	1570	2160	3110	813	671	736	125	101	63
17	144	114	1340	1580	2170	3190	798	694	656	122	93	63
18	142	112	1430	1590	2230	3150	779	687	574	121	89	62
19	140	109	1470	1660	2290	3070	771	668	508	118	84	61
20	137	107	1490	1850	2330	3000	775	685	450	111	80	60
21	133	105	1540	2070	2330	2930	790	688	408	109	78	59
22	129	103	1580	2250	2310	2860	781	649	362	106	84	58
23	126	117	1590	2370	2280	2790	752	599	326	102	87	57
24	120	152	1580	2460	2240	2720	721	573	297	99	89	55
25	118	172	1570	2530	2200	2650	686	627	280	97	95	59
26	119	181	1560	2590	2160	2570	653	636	256	95	99	66
27	118	179	1560	2640	2110	2500	618	689	227	93	100	61
28	117	181	1570	2660	2070	2410	584	658	206	94	99	36
29	116	186	1570	2670	---	2330	553	586	205	92	94	11
30	114	196	1570	2660	---	2260	523	535	200	91	87	7.0
31	112	---	1580	2630	---	2190	---	497	---	88	82	---
TOTAL	6467	3922	38309	58620	65390	79280	29951	19055	17131	3548	2745	1793.0
MEAN	209	131	1236	1891	2335	2557	998	615	571	114	88.5	59.8
MAX	378	196	1590	2670	2620	3190	2120	694	1030	178	113	79
MIN	112	103	259	1440	2070	2010	523	456	200	88	73	7.0
CFSM	.17	.10	.98	1.50	1.85	2.03	.79	.49	.45	.09	.07	.05
IN.	.19	.12	1.13	1.73	1.93	2.34	.88	.56	.51	.10	.08	.05

CAL YR 1977 TOTAL 322980.4 MEAN 885 MAX 4890 MIN 4.0 CFSM .70 IN 9.54
WTR YR 1978 TOTAL 326211.0 MEAN 894 MAX 3190 MIN 7.0 CFSM .71 IN 9.63

02314500 SUWANNEE RIVER AT FARGO, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT						
05...	0800	345	4.2	8.0	22.0	6.9
NOV						
02...	1400	106	4.4	22.0	19.0	7.4
DEC						
06...	1610	943	4.1	11.0	16.0	7.5
FEB						
08...	1300	2390	4.0	5.0	4.0	11.1
MAR						
07...	1545	2210	4.1	23.0	13.0	9.5
MAY						
03...	1215	455	4.1	23.0	20.0	7.0
JUN						
06...	1545	741	4.3	29.0	26.0	6.0
JUL						
12...	0945	95	4.0	26.0	31.0	6.1
AUG						
09...	0930	72	4.2	30.0	28.0	6.1
SEP						
11...	1315	62	4.3	29.0	28.0	6.2

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)
OCT						
05...	52	200	<5	--	1.0	<30
NOV						
02...	47	200	<5	--	--	--
DEC						
06...	47	240	5	--	1.6	230
FEB						
08...	53	200	7	--	1.3	<30
MAR						
07...	56	225	5	--	.5	40
MAY						
03...	45	240	<5	--	<1.0	40
JUN						
06...	50	250	<5	--	--	--
JUL						
12...	46	240	2	90	1.8	40
AUG						
09...	43	250	4	70	.4	30
SEP						
11...	46	200	3	78	.6	135

02314500 SUWANNEE RIVER AT FARGO, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	TANNIN AND LIGNIN (MG/L)
OCT							
05...	1	<.02	<.02	--	.02	35	--
NOV							
02...	6	<.02	.02	--	.02	36	--
DEC							
06...	<1	<.02	.20	--	.02	29	--
FEB							
08...	<1	<.02	.04	--	.03	27	--
MAR							
07...	10	<.02	.04	--	<.02	34	--
MAY							
03...	--	<.02	<.02	--	.13	36	--
JUN							
06...	<1	.02	<.02	--	.03	38	--
JUL							
12...	2	.05	.03	1.0	.03	32	5.0
AUG							
09...	<1	<.02	<.02	.65	.02	25	5.5
SEP							
11...	<1	<.02	.02	.86	.02	28	4.4

02316000 ALAPAHA RIVER NEAR ALAPAHA, GA.

LOCATION.--Lat 31°23'03", long 83°11'33", Berrien County, Hydrologic Unit 03110202, near right bank on downstream side of bridge on State Highway 50, 2 mi (3.2 km) east of Alapaha, and 6 mi (9.7 km) upstream from Willacoochee River.
DRAINAGE AREA.--663 mi² (1,720 km²).
PERIOD OF RECORD.--October 1969 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
JUL 06...	0830	17	6.1	27.0	4.6
SEP 21...	1000	.60	6.2	26.0	5.2

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUL 06...	44	130	11	2	2.6	1.2	3.6	1.7	11	0	9	4.6
SEP 21...	45	120	12	8	2.4	1.4	3.2	1.2	5	0	4	2.9

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
JUL 06...	8.8	.1	8.2	70	.18	.80	.00	.00	.14	.14	.04	.04
SEP 21...	8.2	.0	.9	60	.24	1.1	.01	.03	.25	.25	.01	.01

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
JUL 06...	.05	.78	.78	.82	.00	.82	.96	4.3	.06	.02	.02	.01
SEP 21...	.01	.59	.59	.60	.00	.60	.85	3.8	.03	.01	.00	.00

DATE	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
JUL 06...	.03	170	5	0	4	1000	130	<.5	0	20	8.3	8.3
SEP 21...	.00	130	1	1	2	1500	250	<.5	0	10	15	11

02317500 ALAPAHA RIVER AT STATENVILLE, GA.

LOCATION.--Lat 30°42'14", long 83°02'00", Echols County, Hydrologic Unit 03110202, at downstream side of left bank pier of bridge on State Highway 94, 0.2 mi (0.3 km) west of Statenville.

DRAINAGE AREA.--1,400 mi^2 (3,630 km^2), approximately.

PERIOD OF RECORD.--January to June 1921, October 1931 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.--WSP 822: 1936, drainage area.

GAGE.--Water-stage recorder. Datum of gage is 76.77 ft (23.40 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Jan. 28 to June 30, 1921, nonrecording gage at site 50 ft (15 m) upstream at datum 2.10 ft (0.64 m) higher. Dec. 10, 1931, to Nov. 30, 1949, nonrecording gage at site 200 ft (61 m) upstream at present datum, and Dec. 1, 1949, to Nov. 22, 1952, nonrecording gage at same site and datum.

REMARKS.--Records good. Records of chemical analyses for the water years 1968-74 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--47 years (1931-78), 1,046 ft^3/s (29.6 m^3/s), 10.15 in/yr (257.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,300 ft^3/s (773 m^3/s) Apr. 6, 1948, gage height, 29.8 ft (9.08 m), from graph based on gage readings; minimum, 16 ft^3/s (0.45 m^3/s) Nov. 13, 14, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1862, that of Apr. 6, 1948, from information by local resident.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,600 ft^3/s (187 m^3/s) Feb. 9, gage height, 24.01 ft (7.318 m); minimum, 47 ft^3/s (1.33 m^3/s) Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260	61	657	1200	3660	2190	1800	954	477	216	308	154
2	252	60	876	1200	3880	2130	1550	885	469	201	273	145
3	230	60	877	1170	4340	2170	1360	849	517	193	250	147
4	214	68	833	1130	4890	2340	1200	1000	551	190	463	129
5	206	83	827	1120	5430	2480	1080	1270	554	181	423	116
6	236	105	954	1110	5910	2590	970	1460	493	181	351	110
7	256	127	1010	1110	6280	2580	876	1520	427	204	332	101
8	238	199	965	1140	6510	2590	790	1520	386	197	293	93
9	212	298	904	1330	6590	2930	712	1520	402	183	257	89
10	190	393	844	1480	6470	3340	640	1570	606	172	232	89
11	169	461	795	1600	6070	3660	576	1850	621	173	250	94
12	153	483	738	1670	5400	3880	526	2010	698	509	267	98
13	139	459	706	1740	4430	3960	523	2060	655	427	356	92
14	127	411	758	1850	3710	3920	582	2130	569	319	356	89
15	116	356	893	1940	3150	3900	695	2120	529	253	274	87
16	106	310	995	2020	2920	3920	848	2110	557	244	227	83
17	97	270	1120	2080	2820	3940	970	2110	623	230	190	81
18	90	235	1210	2120	2780	3960	1020	2100	642	220	165	77
19	85	207	1210	2260	2820	3990	1090	2100	661	206	145	73
20	80	184	1160	2610	2860	4030	1130	2090	627	207	131	70
21	76	169	1150	2800	2890	4110	1140	1980	534	248	126	67
22	72	162	1170	2970	2810	4240	1150	1810	475	284	121	63
23	69	173	1180	3120	2640	4350	1140	1650	442	334	122	59
24	66	177	1220	3180	2470	4350	1130	1530	411	394	131	56
25	66	202	1260	3200	2340	4180	1150	1380	374	410	180	54
26	68	238	1300	3260	2240	3840	1200	1180	337	376	222	50
27	64	234	1270	3330	2180	3370	1240	1040	302	337	232	49
28	59	231	1250	3470	2150	2940	1260	855	276	329	220	48
29	57	258	1230	3610	---	2620	1200	713	258	339	203	47
30	59	341	1200	3700	---	2330	1080	604	241	333	183	48
31	60	---	1200	3680	---	2070	---	526	---	321	167	---
TOTAL	4172	7015	31762	68200	110640	102900	30628	46496	14714	8411	7450	2558
MEAN	135	234	1025	2200	3951	3319	1021	1500	490	271	240	85.3
MAX	260	483	1300	3700	6590	4350	1800	2130	698	509	463	154
MIN	57	60	657	1110	2150	2070	523	526	241	172	121	47
CFSM	.10	.17	.73	1.57	2.82	2.37	.73	1.07	.35	.19	.17	.06
IN.	.11	.19	.84	1.81	2.94	2.73	.81	1.24	.39	.22	.20	.07

CAL YR 1977 TOTAL 408790 MEAN 1120 MAX 7350 MIN 49 CFSM .80 IN 10.86
WTR YR 1978 TOTAL 434946 MEAN 1192 MAX 6590 MIN 47 CFSM .85 IN 11.56

02317748 WITHLACOOCHEE RIVER NEAR BEMISS, GA.

LOCATION.--Lat 30°57'24", long 83°16'12", Lowndes County, Hydrologic Unit 03110203, on downstream side of county bridge on Skipper Bridge Road, 1.9 mi (3.1 km) downstream from Cat Creek, and 3.0 mi (4.8 km) northwest of Bemiss.

DRAINAGE AREA.--501 mi^2 (1,300 km^2), approximately.

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 130 ft (39.624 m), from topographic map.

REMARKS.--Records good except those of no gage-height record, Jan. 4 to Feb. 25, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,810 ft^3/s (136 m^3/s) Dec. 2, 1976, gage height, 18.34 ft (5.590 m); minimum discharge, 4.9 ft^3/s (0.14 m^3/s) July 1, 27, 1977.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,440 ft^3/s (97.4 m^3/s) Mar. 12, gage height, 16.92 ft (5.157 m); minimum discharge, 7.3 ft^3/s (0.21 m^3/s) Sept. 9.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	25	169	287	1160	586	276	130	38	13	77	14
2	58	30	233	273	1180	589	253	198	40	13	55	12
3	48	34	208	260	1220	872	232	243	57	17	43	11
4	41	91	197	250	1180	1340	209	465	76	15	70	11
5	35	186	246	240	1100	1510	190	782	77	15	119	11
6	31	155	335	230	940	1570	172	790	72	36	72	10
7	27	166	277	220	920	1540	155	766	68	21	45	9.1
8	25	179	210	340	900	1640	139	861	63	16	39	8.4
9	24	180	176	540	900	2150	126	998	67	21	32	7.7
10	23	162	156	800	940	2670	111	1220	87	21	30	9.1
11	22	131	138	760	880	3200	99	1080	106	20	32	19
12	22	110	125	700	820	3430	90	712	113	21	39	16
13	24	99	122	720	780	3310	154	474	97	44	156	38
14	22	85	260	860	740	3030	406	407	78	52	207	49
15	21	73	588	1000	710	2670	602	351	67	56	153	36
16	20	63	581	980	690	2220	705	319	70	52	74	27
17	18	59	570	960	780	1860	657	340	73	61	46	22
18	19	58	529	940	880	1830	678	330	78	165	35	18
19	18	55	436	1000	940	2180	754	257	83	202	44	15
20	16	52	344	1080	1000	2190	721	219	80	142	70	13
21	15	50	394	1160	1020	1750	579	176	68	175	65	12
22	14	48	426	1240	1000	1300	398	147	53	194	51	12
23	14	61	417	1320	960	959	294	126	43	177	51	12
24	14	83	452	1450	920	720	254	109	34	141	47	11
25	17	155	524	1400	890	593	228	91	29	101	39	10
26	24	124	490	1380	749	517	237	86	25	77	31	9.5
27	26	92	417	1300	630	459	270	94	21	64	25	8.7
28	25	73	411	1240	559	409	230	78	18	56	20	8.1
29	28	64	386	1200	---	369	180	61	16	47	17	7.6
30	29	65	329	1140	---	333	146	52	14	42	14	7.8
31	27	---	303	1140	---	302	---	44	---	49	13	---
TOTAL	804	2808	10449	26410	25388	48098	9545	12006	1811	2126	1811	455.0
MEAN	25.9	93.6	337	852	907	1552	318	387	60.4	68.6	58.4	15.2
MAX	58	186	588	1450	1220	3430	754	1220	113	202	207	49
MIN	14	25	122	220	559	302	90	44	14	13	13	7.6
CFSM	.05	.19	.67	1.70	1.81	3.10	.64	.77	.12	.14	.12	.03
IN.	.06	.21	.78	1.96	1.89	3.57	.71	.89	.13	.16	.13	.03

CAL YR 1977 TOTAL 142500.4 MEAN 390 MAX 4440 MIN 5.0 CFSM .78 IN 10.58
WTR YR 1978 TOTAL 141711.0 MEAN 388 MAX 3430 MIN 7.6 CFSM .77 IN 10.52

02317749 WITHLACOOCHEE RIVER ABOVE VALDOSTA, GA.

LOCATION.--Lat 30°55'57", long 83°17'22", Lowndes County, Hydrologic Unit 03110203, at county highway bridge, 1.5 mi (2.4 km) upstream from Bay Branch, and 7 mi (11 km) north of Valdosta.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
05...	1045	32	7.2	18.0	18.0	7.8
NOV						
07...	0830	87	6.7	18.0	17.0	6.8
DEC						
07...	0900	342	5.9	.0	11.0	8.7
JAN						
10...	0800	990	5.5	-5.0	8.0	8.7
FEB						
13...	1030	915	5.5	14.5	6.0	9.5
MAR						
08...	0800	1700	5.5	7.5	8.0	9.6
APR						
04...	1620	200	6.3	24.0	18.0	6.3
MAY						
08...	0945	928	5.5	27.0	19.5	5.9
JUN						
07...	0630	58	6.6	20.0	24.0	5.6
JUL						
12...	1600	15	6.8	33.0	26.0	6.7
AUG						
09...	1550	28	6.7	30.0	26.5	5.5
SEP						
12...	0615	18	6.7	17.0	23.0	5.7

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
05...	118	90	5	.7	40	--	.20	.21	.35	14
NOV										
07...	109	75	4	1.4	90	--	.25	<.02	.36	17
DEC										
07...	73	120	27	--	--	--	.07	.04	.37	20
JAN										
10...	48	150	22	2.2	7500	--	.04	<.02	.14	20
FEB										
13...	54	75	7	.7	40	--	.22	<.02	.07	11
MAR										
08...	48	80	9	1.4	90	--	<.02	<.02	.09	9.0
APR										
04...	62	150	8	1.4	230	--	.21	.02	.22	19
MAY										
08...	49	120	13	1.4	90	--	.04	<.02	.06	24
JUN										
07...	103	80	5	.9	430	--	.37	.02	.53	14
JUL										
12...	112	60	5	.6	150	18	.07	<.02	.52	9.0
AUG										
09...	96	150	10	.6	40	14	.28	.02	.41	14
SEP										
12...	100	40	5	.7	<30	22	.14	.03	.60	<1.0

02317755 WITHLACOOCHEE RIVER AT U.S. 41, NEAR VALDOSTA, GA.

LOCATION.--Lat 30°53'33", long 83°19'08", Lowndes County, Hydrologic Unit 03110203, on downstream side of bridge on U.S. Highway 41, 1.1 mi (1.8 km) downstream from Cherry Creek, 4.0 mi (6.4 km) upstream from Sugar Creek, and 5.3 mi (8.5 km) north of Valdosta.

DRAINAGE AREA.--537 mi^2 (1,390 km^2), approximately.

PERIOD OF RECORD.--October 1976 to September 1978 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 120 ft (36.576 m), from topographic map.

REMARKS.--Records good except those below 20 ft^3/s (0.57 m^3/s), which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,390 ft^3/s (153 m^3/s) Dec. 2, 1976, gage height, 16.32 ft (4.974 m); no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,700 ft^3/s (105 m^3/s) Mar. 13, gage height, 15.30 ft (4.663 m); minimum discharge, no flow on many days.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	.36	116	292	1290	620	262	94	50	3.3	24	4.8
2	7.7	.36	218	270	1330	622	233	120	25	19	30	7.2
3	4.8	.61	193	254	1300	799	207	179	89	.81	16	1.2
4	.06	52	162	238	1190	1310	181	365	82	15	27	.29
5	.06	109	210	222	1080	1520	157	633	63	1.4	52	.17
6	.13	118	362	211	1020	1600	138	780	46	119	67	.09
7	.20	105	313	199	980	1630	120	753	33	136	27	.07
8	.15	117	219	267	960	1790	104	780	26	34	12	.06
9	.40	123	159	797	1000	2270	90	898	30	5.7	8.1	.05
10	.43	116	131	947	1030	2670	76	1190	48	.02	7.9	.04
11	.26	93	110	861	981	3090	63	1240	44	.00	9.6	.06
12	.31	69	92	767	907	3570	52	967	70	.00	17	.04
13	.32	55	84	837	835	3660	98	620	53	.00	53	.04
14	.32	44	197	1090	775	3500	295	457	37	.00	140	.02
15	.33	32	531	1110	707	3240	472	362	21	.00	143	.01
16	.29	23	596	1070	709	2780	608	312	14	.00	76	.00
17	.29	16	562	1040	793	2280	632	299	17	.00	30	.00
18	.34	12	536	1020	910	1950	617	330	18	67	14	.00
19	.39	8.6	464	1200	1200	2000	707	264	22	189	8.1	.00
20	.34	4.1	368	1810	1340	2260	745	229	23	127	11	.00
21	.30	.67	368	2020	1380	2140	645	164	17	122	27	.00
22	.24	.32	413	2140	1380	1690	478	116	2.2	147	20	.00
23	.31	6.6	399	2260	1330	1290	320	89	.00	143	10	.00
24	.42	22	399	2330	1200	929	243	70	.00	131	8.4	.00
25	4.1	86	488	2230	1050	694	207	50	.00	86	1.4	.00
26	11	105	565	2120	870	568	199	36	.00	52	.37	.00
27	.92	68	467	1880	710	486	230	37	.00	34	.19	.00
28	.36	42	406	1620	604	374	219	33	.00	26	.08	.00
29	.34	27	387	1430	---	377	163	18	.00	18	.06	.00
30	.34	23	350	1320	---	337	120	29	.00	14	.07	.00
31	.34	---	313	1270	---	299	---	130	---	7.9	.99	---
TOTAL	42.49	1478.62	10178	35122	28861	52345	8681	11644	830.20	1498.13	841.26	14.14
MEAN	1.37	49.3	328	1133	1031	1689	289	376	27.7	48.3	27.1	.47
MAX	11	123	596	2330	1380	3660	745	1240	89	189	143	7.2
MIN	.06	.32	84	199	604	299	52	18	.00	.00	.06	.00
CFSM	.003	.09	.61	2.11	1.92	3.15	.54	.70	.05	.09	.05	.001
IN.	.00	.10	.71	2.43	2.00	3.63	.60	.81	.06	.10	.06	.00

CAL YR 1977 TOTAL 143876.01 MEAN 394 MAX 4990 MIN .00 CFSM .73 IN 9.97
WTR YR 1978 TOTAL 151535.84 MEAN 415 MAX 3660 MIN .00 CFSM .77 IN 10.50

02317757 WITHLACOOCHEE RIVER NEAR VALDOSTA, GA.

LOCATION.--Lat 30°51'00", long 83°20'23", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 94, 0.8 mi (1.3 km) upstream from Little River, and 4 mi (6 km) northwest of Valdosta.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 05...	1000	6.9	7.3	18.0	18.0	2.0
NOV 02...	1600	3.7	6.9	23.0	21.0	.5
DEC 07...	0955	346	6.2	1.0	13.0	8.4
JAN 10...	1045	850	5.6	.0	9.0	9.5
FEB 13...	1110	1020	5.9	15.5	6.0	10.4
MAR 08...	0930	1860	5.3	8.0	8.0	9.4
APR 04...	1540	282	6.5	26.0	18.0	5.6
MAY 03...	1500	154	6.6	23.0	18.5	7.2
JUN 07...	0715	63	6.7	22.0	24.0	5.3
JUL 12...	1320	20	6.9	31.0	26.5	4.4
AUG 09...	1430	14	6.9	33.0	29.0	4.0
SEP 12...	0830	9.6	6.9	24.0	23.0	.4

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	359	30	10	7.4	2615	--	.06	7.9	2.0	16
NOV 02...	415	33	13	--	--	--	.02	11	6.0	26
DEC 07...	87	160	16	--	--	--	.15	.24	.30	17
JAN 10...	47	150	14	1.6	9300	--	.08	.05	.21	19
FEB 13...	58	90	8	1.4	90	--	.09	.09	.11	12
MAR 08...	50	120	15	4.4	930	--	.04	.16	.21	20
APR 04...	82	120	10	4.0	23000	--	.24	.43	.42	22
MAY 03...	81	110	11	2.0	290	--	.43	.36	.13	18
JUN 07...	123	120	15	5.3	230	--	.32	1.3	1.3	14
JUL 12...	239	40	16	>6.6	930	67	.06	6.5	2.2	28
AUG 09...	249	75	14	12	4300	68	<.02	6.0	2.1	15
SEP 12...	305	140	11	14	9300	80	.07	7.4	3.2	17

02317830 LITTLE RIVER NEAR LENOX, GA.

LOCATION.--Lat 31°15'15", long 83°30'32", Cook-Colquitt County line, Hydrologic Unit 03110204, near left bank of downstream side of county bridge on Kinard Bridge Road, 2.0 mi (3.2 km) upstream from Warrior Creek, and 2.5 mi (4.0 km) west of Lenox.

DRAINAGE AREA.--208 mi^2 (539 km^2), approximately.

PERIOD OF RECORD.--May 1967 to September 1971, water years 1972-76 (annual maximum), October 1976 to September 1978 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 196.68 ft (59.948 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). October 1971 to September 1976, nonrecording gage at same site and datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--6 years (water years 1968-71, 1977-78), 185 ft^3/s (5.24 m^3/s), 12.08 in/yr (306.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.05 ft (4.282 m) April 6, 1973 (discharge not determined); minimum daily discharge, 0.09 ft^3/s (0.003 m^3/s) Oct. 27, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,680 ft^3/s (75.9 m^3/s) Jan. 29, gage height, 12.55 ft (3.825 m); minimum discharge, 1.1 ft^3/s (0.031 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	13	130	196	678	267	161	80	136	5.3	25	48
2	48	15	124	188	607	302	149	85	155	7.6	22	25
3	39	16	141	166	652	354	137	96	121	16	19	16
4	32	18	147	160	687	499	127	307	97	35	15	12
5	26	25	151	172	656	606	118	424	119	27	14	9.1
6	22	62	169	176	655	582	109	540	100	28	22	7.2
7	20	106	199	165	639	503	99	849	67	24	23	5.5
8	19	137	179	154	560	563	89	934	66	48	31	4.6
9	18	178	172	159	483	927	78	778	110	106	38	4.0
10	17	203	218	189	440	1110	68	592	144	67	54	2.8
11	15	182	214	216	407	1100	58	660	134	39	55	1.8
12	13	144	176	210	374	1090	52	624	104	40	52	2.3
13	12	110	144	248	357	1020	88	871	109	45	86	2.4
14	10	82	126	325	356	932	213	838	140	56	531	2.1
15	8.8	62	121	372	356	1420	378	581	155	178	653	1.8
16	7.8	50	128	333	341	1660	421	386	135	369	336	2.1
17	6.9	44	153	296	328	1140	482	269	91	262	186	2.1
18	6.0	39	178	293	351	999	567	208	53	309	118	1.8
19	5.3	34	217	386	432	871	513	178	38	596	74	1.8
20	4.7	32	267	611	470	689	379	150	32	763	50	1.7
21	4.4	29	273	899	452	524	275	127	22	549	46	1.8
22	4.1	30	235	896	478	417	219	104	17	284	38	3.1
23	3.8	37	217	923	472	349	217	88	13	163	46	4.6
24	3.7	47	217	947	415	311	245	86	10	109	98	4.2
25	3.3	55	212	830	342	283	220	82	7.9	67	73	2.8
26	3.4	79	207	826	289	261	177	65	6.9	44	39	2.1
27	3.9	94	204	1810	248	238	139	49	5.3	58	24	1.6
28	7.4	111	184	2490	229	220	111	40	4.6	80	18	1.4
29	9.3	123	167	2510	---	208	92	42	4.9	63	16	1.3
30	8.7	127	161	1470	---	192	85	65	6.3	41	13	1.2
31	11	---	177	901	---	174	---	106	---	31	37	---
TOTAL	448.5	2284	5608	19517	12754	19811	6066	10304	2203.9	4509.9	2852	178.2
MEAN	14.5	76.1	181	630	456	639	202	332	73.5	145	92.0	5.94
MAX	55	203	273	2510	687	1660	567	934	155	763	653	48
MIN	3.3	13	121	154	229	174	52	40	4.6	5.3	13	1.2
CFSM	.07	.37	.87	3.03	2.19	3.07	.97	1.60	.35	.70	.44	.03
IN.	.08	.41	1.00	3.49	2.28	3.54	1.08	1.84	.39	.81	.51	.03

CAL YR 1977 TOTAL 71507.57 MEAN 196 MAX 2120 MIN .24 CFSM .94 IN 12.79
WTR YR 1978 TOTAL 86536.50 MEAN 237 MAX 2510 MIN 1.2 CFSM 1.14 IN 15.48

02318500 WITHLACOOCHEE RIVER NEAR QUITMAN, GA.

LOCATION.--Lat 30°47'35", long 83°27'13", Brooks-Lowndes County line, Hydrologic Unit 03110203, at bridge on U.S. Highway 84, 4 mi (6.4 km) upstream from Piscola Creek, 6 mi (9.6 km) east of Quitman, and 9 mi (14.5 km) downstream from Little River.

DRAINAGE AREA.--1,480mi^2 (3,830 km^2).

PERIOD OF RECORD.--July 1977 to September 1977.

REMARKS.--Laboratory chemical analyses by Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 05...	1245	155	6.9	23.0	21.0	6.6
NOV 07...	0945	155	6.6	19.0	19.0	6.2
DEC 07...	1230	640	6.3	4.0	12.0	7.9
JAN 09...	1630	1450	5.9	2.0	10.0	10.1
FEB 13...	1200	2740	5.9	17.0	6.0	10.6
MAR 08...	1130	3840	5.6	12.0	8.0	9.6
APR 05...	0800	745	6.5	13.5	17.0	6.4
MAY 08...	1100	1960	5.9	27.5	20.5	6.9
JUN 07...	0950	372	6.3	25.0	25.0	5.5
JUL 12...	1245	122	6.6	30.0	26.0	5.2
AUG 09...	1315	120	6.2	32.0	26.5	4.3
SEP 12...	0930	45	6.0	27.0	24.5	3.9

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 05...	74	105	6	.5	90	--	.46	.14	.29	6.0
NOV 07...	94	60	10	2.3	90	--	.54	.32	.41	12
DEC 07...	87	100	16	--	--	--	.19	.13	.25	14
JAN 09...	58	180	25	--	--	--	.08	.04	.21	21
FEB 13...	56	75	11	1.2	105	--	.15	.03	.07	9.0
MAR 08...	50	120	14	2.5	750	--	.07	.05	.11	15
APR 05...	65	100	11	2.3	930	--	.19	.13	.19	16
MAY 08...	52	100	18	1.5	230	--	.12	.04	.17	19
JUN 07...	58	150	14	1.6	<30	--	.29	.10	.24	15
JUL 12...	86	80	9	5.3	40	8	.55	.35	.31	13
AUG 09...	70	135	10	1.4	<30	8	.71	.26	.36	10
SEP 12...	86	140	8	1.0	<30	10	1.3	.26	.60	8.0

02318725 OKAPILCO CREEK NEAR QUITMAN, GA.

LOCATION.--Lat 30°47'10", long 83°31'33", Brooks County, Hydrologic Unit 03110203, at U.S. Highways 84 and 221, 1.8 mi (2.9 km) east of Quitman.

DRAINAGE AREA.--278 mi^2 (720 km^2), approximately.

PERIOD OF RECORD.--November 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
05...	1330	4.0	7.6	25.0	18.5	5.0
NOV						
07...	1100	1.3	7.3	19.0	18.5	3.3
DEC						
07...	1400	11	7.0	5.5	10.5	6.6
JAN						
09...	1545	118	6.6	3.0	10.0	9.6
FEB						
13...	1230	344	6.0	17.5	7.0	10.4
MAR						
08...	1215	1060	5.9	12.0	7.0	9.0
APR						
05...	0900	96	6.3	15.0	16.5	6.2
MAY						
08...	1130	268	6.3	27.5	20.0	5.9
JUN						
07...	1100	159	6.1	26.5	23.5	5.1
JUL						
12...	1150	23	7.1	29.0	26.5	2.7
AUG						
09...	1350	2.5	7.0	32.5	25.5	3.7
SEP						
12...	1015	1.2	7.1	27.0	23.5	4.2

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
05...	264	50	10	1.8	9300	--	.81	1.4	1.6	13
NOV										
07...	402	40	15	9.8	2300	--	1.1	8.1	5.0	18
DEC										
07...	229	80	29	--	--	--	.97	1.5	1.5	13
JAN										
09...	125	65	25	--	--	--	.95	.39	.41	13
FEB										
13...	73	75	10	2.0	230	--	.17	.03	.12	7.0
MAR										
08...	66	105	21	3.2	430	--	.30	.44	.20	16
APR										
05...	88	110	11	1.9	2300	--	.33	.26	.24	18
MAY										
08...	75	100	25	1.8	750	--	.12	.09	.24	17
JUN										
07...	67	150	21	1.6	30	--	.21	.11	.22	18
JUL										
12...	156	80	16	>8.1	430	40	.13	1.6	.56	19
AUG										
09...	165	135	15	6.0	150	44	.42	1.1	1.4	16
SEP										
12...	300	160	22	14	930	117	.18	3.6	4.5	22

02318960 WITHLACOOCHEE RIVER NEAR CLYATTVILLE, GA.

LOCATION.—Lat 30°38'07", long 83°18'41", Lowndes County, Hydrologic Unit 03110203, at bridge on State Highway 31, 4.3 mi (6.9 km) south of Clyattville.

DRAINAGE AREA.—2,030 mi^2 (5,260 km^2), approximately.

PERIOD OF RECORD.—November 1974 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
05...	1130	240	7.7	22.0	21.0	6.8
NOV						
02...	1500	90	7.7	23.0	19.5	5.4
DEC						
07...	1100	765	6.8	2.0	13.0	8.4
JAN						
10...	0930	1930	6.4	-3.0	9.5	9.3
FEB						
08...	1445	4620	6.0	4.0	3.0	11.3
MAR						
08...	1030	4870	6.0	10.0	8.5	9.1
APR						
04...	1430	1260	7.0	25.0	18.0	6.9
MAY						
03...	1330	832	6.9	22.0	19.0	5.4
JUN						
07...	0845	504	6.9	24.0	23.5	5.6
JUL						
12...	1100	330	7.4	26.0	25.0	5.0
AUG						
09...	1215	294	7.3	32.0	24.5	4.3
SEP						
11...	1615	159	7.5	29.5	24.0	6.2

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
05...	130	75	<5	.6	30	--	1	.39	.05	.19	12
NOV											
02...	214	20	<5	--	--	--	21	.34	.02	.13	4.0
DEC											
07...	98	100	10	--	--	--	18	.33	.03	.33	14
JAN											
10...	61	150	32	2.4	4300	--	29	.18	.05	.25	18
FEB											
08...	56	80	16	1.0	40	--	<1	.20	.02	.06	10
MAR											
08...	51	120	13	2.4	720	--	16	.07	.06	.09	16
APR											
04...	93	100	9	.8	<30	--	<1	.22	.07	.13	15
MAY											
03...	96	90	10	.6	230	--	--	.41	.09	.10	15
JUN											
07...	81	180	14	.9	<30	--	5	.23	.03	.17	14
JUL											
12...	133	60	11	.9	<35	52	3	.36	.04	.15	7.0
AUG											
09...	140	150	10	4.2	40	54	--	.50	<.02	.20	7.0
SEP											
11...	200	50	5	.4	70	87	<1	.41	<.02	.15	4.0

02327500 OCHLOCKONEE RIVER NEAR THOMASVILLE, GA.

LOCATION.--Lat 30°52'32", long 84°02'44", Thomas County, Hydrologic Unit 03120002, at bridge on U.S. Highway 84, 2 mi (3.2 km) upstream from Seaboard Coast Line Railroad bridge, 4 mi (6.4 km) upstream from Barnetts Creek, 5 mi (8.0 km) northwest of Thomasville, and 6 mi (9.6 km) downstream from Little Ochlockonee River.

DRAINAGE AREA.--550 mi^2 (1,420 km^2), approximately.

PERIOD OF RECORD.--February 1968 current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Records of discharge for the water years 1937-1971 are published in reports of the Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
06...	0800	449	7.0	16.0	18.0	6.2
NOV						
07...	1345	102	7.0	23.0	18.0	7.8
DEC						
08...	0800	108	7.2	.0	10.0	8.2
FEB						
13...	1430	664	6.4	22.0	7.0	10.3
MAR						
08...	1315	2200	6.1	14.0	8.0	9.0
MAY						
08...	1245	2850	5.9	28.5	20.0	6.5
JUN						
07...	1300	529	6.3	28.5	24.0	5.8
JUL						
13...	0700	126	6.3	25.5	27.0	6.0
AUG						
10...	0700	571	6.6	22.0	25.0	5.8
SEP						
12...	1200	45	7.2	28.0	24.0	1.5

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
06...	120	100	15	1.9	2300	--	.61	.24	.65	15
NOV										
07...	114	90	21	2.0	750	--	.63	.18	.54	14
DEC										
08...	159	90	17	2.3	290	--	.99	.64	.86	13
FEB										
13...	72	60	11	1.3	2900	--	.44	.19	.13	7.0
MAR										
08...	59	90	16	2.3	230	--	.20	.21	.15	10
MAY										
08...	46	120	37	1.4	230	--	.09	.08	.18	13
JUN										
07...	66	150	19	1.7	330	--	.31	.16	.25	18
JUL										
13...	122	160	13	--	--	17	.90	.52	.78	12
AUG										
10...	61	120	40	3.4	4300	11	.22	.16	.28	16
SEP										
12...	220	200	30	3.0	230	75	1.0	2.2	.90	10

02328200 OCHLOCKONEE RIVER NEAR CALVARY, GA.

LOCATION.--Lat 30°43'53", long 84°14'12", Grady County, Hydrologic Unit 03120003, at county highway bridge, 1.5 mi (2.4 km) downstream from Tired Creek, and 6.5 mi (10.5 km) east of Calvary.

DRAINAGE AREA.--930 mi^2 (2,410 km^2), approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
06...	1000	568	6.8	19.0	20.0	7.9
NOV						
07...	1230	376	7.3	22.0	17.0	8.1
DEC						
08...	0930	247	7.0	3.0	10.0	9.8
FEB						
13...	1545	1230	6.4	20.0	7.0	11.7
MAR						
09...	0730	2840	6.1	8.0	9.0	9.0
MAY						
08...	1345	2950	5.9	29.5	19.5	5.7
JUN						
08...	0630	1210	6.2	21.0	25.0	5.9
JUL						
13...	0815	219	6.4	27.0	27.5	6.2
AUG						
10...	0830	806	6.2	24.5	25.0	5.9
SEP						
12...	1315	114	6.8	30.0	24.0	6.3

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)
OCT						
06...	81	120	32	--	1.0	430
NOV						
07...	174	60	14	--	1.5	310
DEC						
08...	134	90	14	--	1.5	120
FEB						
13...	91	75	14	--	.7	230
MAR						
09...	57	120	17	--	2.4	930
MAY						
08...	57	140	48	--	1.2	230
JUN						
08...	72	180	24	--	--	--
JUL						
13...	88	150	18	34	--	--
AUG						
10...	71	140	105	40	3.5	43000
SEP						
12...	174	140	17	18	1.0	90

02328200 OCHLOCKONEE RIVER NEAR CALVARY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
06...	--	10	.40	.02	--	.30	14
NOV							
07...	--	14	1.6	.40	--	1.0	10
DEC							
08...	--	28	.73	.18	--	.38	11
FEB							
13...	--	5	.15	<.02	--	.13	6.0
MAR							
09...	--	8	.21	.02	--	.11	13
MAY							
08...	--	15	.10	.03	--	.19	18
JUN							
08...	--	5	.35	.07	--	.20	12
JUL							
13...	11	9	.80	.03	.70	.41	14
AUG							
10...	7	85	.70	.24	.28	.38	16
SEP							
12...	21	1	1.8	.18	.84	.53	9.0

02330453 CHATTAHOOCHEE RIVER AT NACOOCHEE, GA.

LOCATION.--Lat 34°41'13", long 83°42'37", White County, Hydrologic Unit 03130001, at highway bridge on State Highways 17 and 75 at Nacoochee, and 1.0 mi (1.6 km) upstream from Dukes Creek.

DRAINAGE AREA.--49.0 mi^2 (127 km^2).

PERIOD OF RECORD.--July 1977 to September 1977.

REMARKS.--Laboratory chemical analyses by Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
13...	1800	77	7.0	13.0	13.0	9.8
NOV						
08...	0800	368	6.7	17.5	11.0	10.6
DEC						
14...	1515	279	6.2	19.5	9.5	10.9
JAN						
11...	1530	285	6.3	.0	2.0	--
FEB						
08...	1400	220	6.4	4.0	4.0	12.1
APR						
11...	1500	155	7.0	18.0	16.0	9.3
MAY						
18...	0915	121	6.7	14.0	13.0	10.1
JUN						
15...	1245	72	6.9	24.0	19.0	8.3
JUL						
11...	1500	54	6.9	27.0	24.0	8.0
SEP						
13...	1100	75	6.4	28.0	19.0	10.0

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
13...	16	4	.5	150	--	.08	<.04	<.02	2.0
NOV									
08...	13	8	.6	110	--	.04	<.02	<.02	1.0
DEC									
14...	14	12	.7	390	--	.04	<.02	.02	1.0
JAN									
11...	12	2	.3	70	--	.04	<.02	<.02	<1.0
FEB									
08...	13	4	.6	60	--	.03	<.02	<.02	<1.0
APR									
11...	15	7	.8	930	--	.08	.04	<.02	5.5
MAY									
18...	15	6	.3	430	--	<.02	.02	<.02	3.0
JUN									
15...	16	5	.8	600	--	.06	<.02	<.02	1.0
JUL									
11...	17	4	.3	230	6	.06	.02	.02	3.0
SEP									
13...	14	5	.3	210	8	.06	<.02	<.02	<1.0

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.

LOCATION.--Lat 34°32'27", long 83°37'14", Habersham-White County line, Hydrologic Unit 03130001, on downstream side of highway bridge, 1 mi (1.6 km) downstream from Soquee River, 6 mi (9.7 km) northwest of Cornelia, and at mile 401.4 (645.9 km).
DRAINAGE AREA.--315 mi^2 (816 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1957 to current year.
REVISED RECORDS.--WSP 2106: 1963(M).
GAGE.--Water-stage recorder. Datum of gage is 1,128.53 ft (343.98 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).
REMARKS.--Records good. Some regulation at low flow from Habersham Mill powerplant.
AVERAGE DISCHARGE.--21 years, 867 ft^3/s (24.6 m^3/s), 37.38 in/yr (949.5 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 26,400 ft^3/s (478 m^3/s) Mar. 12, 1963, gage height, 20.55 ft (6.264 m), from rating curve extended above 13,000 ft^3/s (368 m^3/s) on basis of contracted-opening measurement of peak flow; minimum daily, 91 ft^3/s (2.58 m^3/s) Sept. 7, 1957.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,200 ft^3/s (176 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 25	2400	7600	215	7.50	2.286	Jan. 8	2300	8290	235	7.99	2.435
Nov. 6	0330	14200	402	11.90	3.627	Jan. 25	2400	*14400	408	12.04	3.670

Minimum daily discharge, 162 ft^3/s (4.59 m^3/s) July 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	346	600	1370	856	1360	949	787	732	649	370	430	486
2	670	600	1070	841	1330	917	795	712	628	481	344	317
3	565	635	927	817	1270	1060	788	673	607	488	344	313
4	460	910	866	777	1220	1050	762	823	530	442	488	432
5	430	4110	1060	764	1210	956	756	805	607	424	390	485
6	412	8740	1050	853	1200	942	746	698	600	436	329	451
7	340	2480	890	851	1160	901	742	699	600	442	2890	436
8	340	1700	831	2910	1150	1110	713	881	793	424	1640	454
9	3020	1350	868	3770	1130	1380	722	1410	1000	424	2030	386
10	1000	1250	783	1610	1120	2580	727	923	722	502	1640	208
11	745	1150	769	1290	1090	1460	736	804	656	474	1140	988
12	670	1000	766	1160	1080	1250	760	751	692	418	1210	563
13	600	868	741	1120	1170	1130	743	1060	670	430	1030	474
14	586	785	912	1020	1110	1170	707	894	628	474	835	452
15	430	761	927	963	1050	1120	673	828	621	621	2180	469
16	370	760	833	937	1030	1060	679	769	614	530	1230	444
17	530	1160	778	1400	1010	1010	682	734	586	551	1030	239
18	495	905	1040	1270	996	959	771	712	412	488	818	386
19	474	779	914	1240	996	951	1530	690	614	467	726	410
20	460	745	854	2650	992	947	934	647	614	460	707	485
21	340	741	810	1480	971	922	807	645	614	436	707	397
22	304	718	769	1250	953	945	744	652	600	406	636	381
23	388	927	1000	1150	942	900	730	639	565	322	606	292
24	460	892	771	1100	937	884	729	738	544	334	587	387
25	1400	815	1730	5210	903	862	813	653	334	442	574	521
26	3080	753	1150	6980	903	959	825	706	537	412	561	459
27	1100	714	967	2270	907	901	741	1030	557	410	357	412
28	825	910	889	1830	942	855	699	812	537	494	571	385
29	670	960	792	1640	---	839	665	741	530	375	546	381
30	656	912	692	1510	---	821	682	811	412	162	537	346
31	635	---	975	1410	---	809	---	691	---	309	528	---
TOTAL	22801	39630	28794	52929	30132	32599	23188	24363	18073	13448	27641	12759
MEAN	736	1321	929	1707	1076	1052	773	786	602	434	892	425
MAX	3080	8740	1730	6980	1360	2580	1530	1410	1000	621	2890	988
MIN	304	600	692	764	903	809	665	639	334	162	329	208
CFSM	2.34	4.19	2.95	5.42	3.42	3.34	2.45	2.50	1.91	1.38	2.83	1.35
IN.	2.69	4.68	3.40	6.25	3.56	3.85	2.74	2.88	2.13	1.59	3.26	1.51

CAL YR 1977 TOTAL 334192 MEAN 916 MAX 15600 MIN 153 CFSM 2.91 IN 39.47
WTR YR 1978 TOTAL 326357 MEAN 894 MAX 8740 MIN 162 CFSM 2.84 IN 38.54

02331600 CHATTAHOOCHEE RIVER NEAR CORNELIA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV						
08...	0930	1600	6.7	18.5	12.0	10.7
FEB						
08...	1430	1140	6.9	5.0	4.0	12.4
MAY						
18...	1345	708	6.8	26.0	18.0	8.8
JUL						
11...	0930	488	7.0	27.0	23.5	7.7
SEP						
13...	0930	526	6.2	28.0	20.0	8.9

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV									
08...	21	39	.8	2100	--	.24	<.02	.04	10
FEB									
08...	19	8	.2	150	--	.20	.02	<.02	3.0
MAY									
18...	25	12	.6	930	--	.15	.02	.02	3.0
JUL									
11...	25	11	1.0	930	9	.17	.03	.03	2.0
SEP									
13...	23	18	1.0	2300	7	.19	<.02	.04	2.0

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
FEB							
08...	1310	1150	2.0	6.0	7	22	66
MAR							
23...	1310	902	14.0	6.0	18	44	100
MAY							
04...	1130	777	--	8.0	27	57	69
JUL							
26...	1400	418	23.5	15	26	29	100
SEP							
07...	1330	472	--	5.0	21	27	71

02333500 CHESTATEE RIVER NEAR DAHLONEGA, GA.

LOCATION.--Lat 34°31'41", long 83°56'23", Lumpkin County, Hydrologic Unit 03130001, on left bank 250 ft (76 m) upstream from Bearden Bridge on State Highway 52, 2 mi (3.2 km) downstream from Ballplay Creek, 2.5 mi (4.0 km) east of Dahlonega, and 3.5 mi (5.6 km) upstream from Yahoola Creek.

DRAINAGE AREA.--153 mi^2 (396 km^3).

PERIOD OF RECORD.--June 1929 to January 1932, April 1940 to current year. Monthly discharge only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 1,128.6 ft (344.0 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records good.

AVERAGE DISCHARGE.--40 years (1929-31, 1940-78), 370 ft^3/s (10.5 m^3/s), 32.84 in/yr (834.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 22,700 ft^3/s (643 m^3/s) Aug. 23, 1967, gage height, 25.17 ft (7.672 m); minimum daily, 49 ft^3/s (1.39 m^3/s) Oct. 4, 1931, Oct. 26, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 12, 1907 reached a stage of about 25 ft (7.6 m), from information by local resident. Flow increased by failure of dam above station.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 2,600 ft^3/s (73.6 m^3/s) and maximum (*):

		Discharge		Gage height				Discharge		Gage height	
Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)	Date	Time	(ft^3/s)	(m^3/s)	(ft)	(m)
Oct. 25	2245	3080	87.2	7.23	2.204	Jan. 26	0015	*7280	206	12.38	3.773
Nov. 5	2100	4720	134	9.38	2.859	Aug. 9	1800	3690	104	8.17	2.490
Jan. 8	2115	4580	130	9.15	2.789						

Minimum discharge, 115 ft^3/s (3.26 m^3/s) July 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	232	698	453	650	374	333	349	229	162	176	173
2	556	227	563	421	628	364	328	317	223	156	127	170
3	256	248	457	395	597	454	324	302	223	154	148	175
4	195	490	413	382	564	442	319	368	218	146	451	162
5	178	2360	550	374	545	385	316	355	210	142	438	158
6	168	2230	520	428	525	373	313	316	208	146	239	159
7	161	954	433	426	502	365	307	313	212	148	779	155
8	253	655	398	1690	491	495	301	464	428	140	668	150
9	1650	527	427	1890	481	748	298	845	496	138	1580	146
10	519	440	381	897	470	1380	295	476	286	160	922	148
11	342	385	362	701	456	721	319	394	253	142	664	241
12	281	358	350	621	447	587	331	361	265	132	704	174
13	243	337	342	593	509	515	316	528	271	134	457	160
14	223	321	474	542	469	585	295	424	226	154	351	152
15	210	308	465	495	437	543	283	385	218	166	469	157
16	197	319	401	470	425	490	280	364	212	208	406	156
17	191	616	388	719	415	452	277	346	208	152	318	148
18	185	416	635	632	408	434	363	328	205	136	271	142
19	179	357	458	663	401	414	848	316	200	130	257	137
20	173	331	427	1220	392	400	425	301	244	128	287	134
21	170	323	393	759	390	392	362	289	223	124	251	130
22	166	318	368	637	380	408	337	280	215	120	222	129
23	164	434	354	575	376	381	322	280	195	119	208	174
24	161	414	369	563	373	372	313	316	192	133	202	170
25	690	374	1130	2790	368	368	377	274	188	151	195	160
26	1100	344	640	3240	363	398	361	268	182	176	190	144
27	447	325	528	1280	355	370	324	274	185	181	234	138
28	339	469	480	977	373	358	307	265	170	150	223	134
29	295	473	444	819	---	350	295	259	166	131	189	130
30	267	417	497	740	---	342	309	256	162	122	181	127
31	245	---	512	690	---	337	---	238	---	122	176	---
TOTAL	10386	16002	14857	27082	12790	14597	10178	10851	6913	4503	11983	4633
MEAN	335	533	479	874	457	471	339	350	230	145	387	154
MAX	1650	2360	1130	3240	650	1380	848	845	496	208	1580	241
MIN	161	227	342	374	355	337	277	238	162	119	127	127
CFSM	2.19	3.48	3.13	5.71	2.99	3.08	2.22	2.29	1.50	.95	2.53	1.01
IN.	2.53	3.89	3.61	6.58	3.11	3.55	2.47	2.64	1.68	1.09	2.91	1.13

CAL YR 1977 TOTAL 152048 MEAN 417 MAX 8340 MIN 118 CFSM 2.73 IN 36.97
WTR YR 1978 TOTAL 144775 MEAN 397 MAX 3240 MIN 119 CFSM 2.60 IN 35.20

02334430 CHATTAHOOCHEE RIVER AT BUFORD DAM, NEAR BUFORD, GA.

LOCATION.—Lat 34°09'25", long 84°04'44", Gwinnett-Forsyth County line, Hydrologic Unit 03130001, on right bank 1,200 ft (366 m) downstream from Buford Dam, 2.4 mi (3.9 km) upstream from bridge on State Highway 20, 4 mi (6.4 km) northwest of Buford, and at mile 348.1 (560.0 km).

DRAINAGE AREA.—1,040 mi^2 (2,690 km^2), approximately.

PERIOD OF RECORD.—June to December 1901 (figures of daily discharge for the months of August and December, published in WSP 197, are unreliable and should not be used), October 1941 to current year. Monthly discharge only for some periods, published in WSP 1304.

REVISED RECORDS.—See period of record.

GAGE.—Water-stage recorder. Datum of gage is 912.04 ft (277.99 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). June 24 to Dec. 21, 1901, Jan. 27, 1942, to Dec. 3, 1944, nonrecording gage, and Dec. 4, 1944, to Dec. 31, 1947, water-stage recorder at site 2.5 mi (4.0 km) downstream, and Jan. 1, 1948, to Sept. 30, 1971, water-stage recorder at site 2.4 mi (3.9 km) downstream, all at different datum.

REMARKS.—Records good. Flow regulated by Lake Sidney Lanier beginning January 1956 (See "Lakes and Reservoirs in Apalachicola River basin", station 02334400.)

AVERAGE DISCHARGE.—37 years, 2,169 ft^3/s (61.4 m^3/s), 28.32 in/yr (719.3 mm/yr), adjusted for storage since 1956.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 55,000 ft^3/s (1,560 m^3/s) Jan. 8, 1946, gage height, 32.6 ft (9.94 m), from floodmark, from rating curve extended above 13,000 ft^3/s (368 m^3/s) on basis of peak flows passing upstream and downstream stations; minimum daily, 262 ft^3/s (7.42 m^3/s) May 18, 1958.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1921, that of Jan. 8, 1946.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 10,400 ft^3/s (294 m^3/s) Feb. 8, gage height, 11.02 ft (3.359 m); minimum daily, 546 ft^3/s (15.5 m^3/s) Nov. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	572	1100	2820	1200	7400	1560	604	1390	1590	638	3010	3910
2	1000	1090	2820	3420	7310	1590	919	1420	1480	962	3050	651
3	1470	1100	1110	3420	7450	1580	1980	605	640	1930	3030	976
4	1500	1100	1100	3380	764	660	3530	1390	951	1920	3130	1940
5	1490	679	3050	3390	955	921	1970	1400	1470	1920	659	1930
6	1500	604	2750	3440	7950	2480	1970	611	1490	1920	976	1930
7	1490	1200	3790	618	8130	2490	1980	615	1500	1920	2440	3030
8	580	1180	3260	963	8170	2480	604	3380	1460	623	4140	3250
9	950	1150	3050	2600	8140	2570	918	3600	1490	955	4090	651
10	1290	1170	1510	4470	8190	2570	1510	3570	638	2360	4090	974
11	1280	1170	1510	6140	775	611	1510	3590	968	2330	4070	2440
12	1280	553	2680	6450	940	613	1500	3580	2520	2330	652	2440
13	1310	883	2690	6500	2770	3850	1510	621	2530	2340	976	2860
14	1300	1640	2690	3870	2800	3820	1500	620	2530	2320	4100	2470
15	562	1430	2670	3500	2790	3870	605	3870	2540	665	2620	2440
16	900	1420	2670	4030	4590	3870	924	3870	2520	970	1810	2110
17	1370	1410	621	4070	4500	3880	1840	3890	634	3100	2620	974
18	1380	1430	1200	4020	616	604	1840	3890	956	3110	2710	3980
19	1380	546	1860	4040	944	921	1850	3880	1440	2990	647	3140
20	1370	866	1850	4080	2780	3590	1850	1410	1470	3350	964	2770
21	1370	2080	1860	622	2750	3580	1860	938	1460	3130	3700	2210
22	557	2180	1860	942	2720	3660	610	2210	1460	646	3760	2620
23	902	2100	1870	5300	2720	3560	924	1750	1460	969	3710	4440
24	1090	2150	620	6660	2740	3600	2490	1740	636	3310	3730	660
25	1180	2140	1100	1730	613	600	2480	1390	957	3310	3720	4440
26	1100	635	4210	3300	936	924	3640	1390	1630	3300	650	2570
27	1110	956	4210	6630	1590	2220	3650	636	1680	3320	970	4360
28	1100	2820	4210	7200	1590	2230	3650	956	3860	3150	3080	4440
29	565	2810	4230	7340	---	2210	1410	1480	2590	656	3920	4440
30	900	2820	4220	7380	---	2200	603	1480	1460	969	3890	660
31	1110	---	622	7440	---	2210	---	1490	---	2790	3890	---
TOTAL	34958	42412	74713	128145	103623	71524	52231	62662	48010	64203	84804	75706
MEAN	1128	1414	2410	4134	3701	2307	1741	2021	1600	2071	2736	2524
MAX	1500	2820	4230	7440	8190	3880	3650	3890	3860	3350	4140	4440
MIN	557	546	620	618	613	600	603	605	634	623	647	651
MEAN†	2520	3886	2317	5064	2534	2702	1924	2039	1143	921	2705	719
CFSM†	2.42	3.74	2.23	4.87	2.44	2.60	1.85	1.96	1.10	0.89	2.60	0.69
IN†	2.79	4.17	2.57	5.62	2.54	3.00	2.06	2.26	1.23	1.03	3.00	0.77

CAL YR 1977 TOTAL 808444 MEAN 2215 MAX 7920 MIN 500 MEAN† 2337 CFSM† 2.25 IN† 30.54
WTR YR 1978 TOTAL 842991 MEAN 2310 MAX 8190 MIN 546 MEAN† 2377 CFSM† 2.29 IN† 31.08

† Adjusted for change in contents in Lake Sidney Lanier.

02335000 CHATTAHOOCHEE RIVER NEAR NORCROSS, GA.

LOCATION.--Lat 33°59'50", long 84°12'07", Gwinnett-Fulton County line, Hydrologic Unit 03130001, on downstream side of right bank pier of bridge on State Highway 141, 1.5 mi (2.4 km) upstream from John Creek, 4.5 mi (7.2 km) north of Norcross, 6.5 mi (10.5 km) downstream from Suwanee Creek, 18 mi (29 km) downstream from Buford Dam, and at mile 330.8 (532.3 km).

DRAINAGE AREA.--1,170 mi^2 (3,030 km^2), approximately.

PERIOD OF RECORD.--October 1902 to September 1946, October 1956 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site 1910-33, and since 1945 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 878.14 ft (267.66 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to July 13, 1955, nonrecording gage at site 500 ft (152 m) downstream at same datum. July 14, 1955, to Mar. 11, 1957, nonrecording gage at present site and datum.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversion and return flow above station regulated by Gwinnett County.

AVERAGE DISCHARGE.--66 years, 2,321 ft^3/s (65.7 m^3/s), 26.94 in/yr (684.3 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft^3/s (1,560 m^3/s) Jan. 8, 1946, gage height, 27.7 ft (8.443 m), from rating curve extended above 36,000 ft^3/s (1,020 m^3/s) on basis of computation of peak flow over Morgan Falls Dam; minimum observed, 132 ft^3/s (3.74 m^3/s) Aug. 25, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1896, that of Jan. 8, 1946.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,400 ft^3/s (295 m^3/s) Feb. 9, gage height, 11.03 ft (3.362 m); minimum daily, 638 ft^3/s (18.1 m^3/s) Oct. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	1160	3100	846	7850	1610	1500	944	1700	1180	2520	4100
2	697	1860	3080	2980	7830	1590	781	1700	1600	727	3190	2060
3	1330	1170	2190	3740	7830	1630	1330	1590	1280	1390	3140	741
4	1240	1320	806	3680	3800	1200	3500	857	813	1990	3700	1690
5	1590	2070	2830	3700	878	757	2500	1630	1250	2010	2090	2070
6	1590	3190	3350	3920	5760	2030	2110	1580	1600	2020	1000	2060
7	1590	1290	3020	2340	8460	2620	2230	794	1630	2010	2980	2840
8	1570	1410	4190	1180	8450	2660	1860	2350	1650	1500	3530	2930
9	1440	1350	3460	3170	8570	2820	765	4290	1660	710	4270	2100
10	1220	1320	2570	5080	8290	3520	1040	3990	1270	1580	4470	756
11	1430	1290	859	5950	3740	1880	1700	3890	814	2460	4240	1880
12	1400	1240	2520	6690	877	917	1720	3850	2180	2430	2330	2550
13	1390	685	2910	7030	2310	2780	1740	2510	2700	2450	868	2940
14	1380	1240	2930	5090	3130	4290	1720	821	2700	2450	2880	2610
15	1350	1540	2940	4000	3130	4370	1670	2120	2700	1910	3530	2540
16	647	1550	2920	4410	4380	4310	759	4070	2700	1070	2280	2430
17	938	1580	2020	4640	4850	4310	1040	4130	1430	2210	2570	1470
18	1420	1560	817	4630	2560	2320	2120	4110	767	3250	2900	3630
19	1440	1460	1950	4640	857	841	2480	4120	1300	3310	1670	3200
20	1450	676	2010	5380	2360	2920	2220	2940	1570	3360	786	3300
21	1440	1770	2010	2710	3050	3990	2120	1330	1540	3150	2830	2600
22	1400	2230	2000	964	2950	3980	2080	1900	1520	2020	3870	2530
23	638	2360	2000	3470	2950	3990	795	2030	1510	727	3870	4460
24	1400	2280	1380	7380	2930	3980	1960	1910	1160	2090	3840	2390
25	1350	2370	862	5830	1810	2130	2840	1730	735	3430	3870	2840
26	1900	1440	2870	4800	813	821	3210	1600	760	3420	1980	3130
27	1320	739	4960	7430	1520	2050	3960	1120	1660	3430	774	4430
28	1210	2300	4580	7210	1610	2490	4000	790	3310	3590	2240	4630
29	699	3070	4560	7870	---	2490	3340	1280	3320	1980	3880	4630
30	663	3090	4660	7850	---	2450	851	1590	1730	729	4020	2340
31	1420	---	2620	7840	---	2470	---	1600	---	2710	3960	---
TOTAL	39692	50610	82974	146450	113545	80216	59941	69166	50559	67293	90078	81877
MEAN	1280	1687	2677	4724	4055	2588	1998	2231	1685	2171	2906	2729
MAX	1900	3190	4960	7870	8570	4370	4000	4290	3320	3590	4470	4630
MIN	638	676	806	846	813	757	759	790	735	710	774	741

CAL YR 1977 TOTAL 914804 MEAN 2506 MAX 8670 MIN 624 MEAN† 2628 CFSM† 2.25 IN† 30.54
WTR YR 1978 TOTAL 932401 MEAN 2555 MAX 8570 MIN 638 MEAN† 2622 CFSM† 2.24 IN† 30.41

† Adjusted for change in contents in Lake Sidney Lanier.

02335450 CHATTAHOOCHEE RIVER ABOVE ROSWELL, GA.

LOCATION.--Lat 33°59'09", long 84°18'58", Fulton County, Hydrologic Unit 03130001, on right bank 3.3 mi (5.3 km) upstream from Big Creek and bridge on U.S. Highway 19, and 3.6 mi (5.8 km) southeast of Roswell.

DRAINAGE AREA.--1,220 mi^2 (3,160 km^2), approximately.

PERIOD OF RECORD.--October 1941 to May 1960 (published as "near Roswell"), July 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 858.01 ft (261.521 m) National Geodetic Vertical Datum of 1929. Prior to July 7, 1976, at site 1.8 mi (2.9 km) downstream at datum 5.36 ft (1.634 m) lower.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett and DeKalb Counties; return flows above station by Gwinnett County.

AVERAGE DISCHARGE.--20 years, 2,105 ft^3/s (59.6 m^3/s), 23.43 in/yr (595.1 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 56,000 ft^3/s (1.586 m^3/s) Jan. 8, 1946 (gage height, 23.4 ft site and datum then in use, from floodmark), from rating curve extended above 30,000 ft^3/s (850 m^3/s) on basis of computation of peak flow over Morgan Falls Dam 6 miles downstream; minimum daily, 315 ft^3/s (8.92 m^3/s) Aug. 11, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,800 ft^3/s (306 m^3/s) Jan. 25, gage height, 8.45 ft (2.576 m); minimum daily, 579 ft^3/s (16.4 m^3/s) Oct. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1100	1150	3030	935	7720	1680	1650	1060	1590	1480	2150	3870
2	750	1140	3140	2770	7730	1700	741	1700	1580	618	2900	2920
3	1300	1160	2570	3740	7660	1770	1230	1600	1560	945	2920	637
4	1200	1480	986	3710	5010	1330	2820	827	656	1920	3440	1060
5	1400	2470	2550	3730	950	695	3080	1620	964	1940	2910	1900
6	1500	3510	3410	3920	4510	1720	1930	1570	1540	1950	883	1920
7	1500	1580	3030	2840	8260	2600	2300	762	1630	1930	2790	2370
8	1500	1470	4120	1440	8350	2650	1870	1950	1680	1920	3120	2720
9	1400	1410	3560	3120	8360	3060	691	4440	1630	590	4210	2820
10	1350	1330	2720	5090	8410	3830	963	3940	1580	973	4270	613
11	1400	1310	1070	5480	5000	2240	1650	3900	672	2380	4120	1080
12	1400	1270	2400	6570	884	927	1660	3870	1540	2390	3250	2370
13	1350	696	2920	6910	1960	2360	1700	2970	2620	2390	766	2680
14	1390	1060	3000	5720	3030	4300	1670	814	2640	2410	1860	2570
15	1340	1570	2970	3890	3090	4290	1660	1160	2640	2540	3720	2450
16	712	1470	2960	4420	4020	4250	722	4010	2610	1090	2460	2410
17	877	1570	2240	4670	4770	4250	1010	4040	2110	1490	2150	1950
18	1330	1550	908	4690	3220	2730	2160	4070	659	3160	2720	2300
19	1350	1540	1940	4680	829	810	2580	4030	974	3280	2330	2760
20	1340	666	2130	5700	2030	2580	2290	3650	1530	3220	676	3010
21	1410	1590	2090	3410	3020	3920	2040	1480	1550	3130	1800	3050
22	1490	2250	2120	1040	2920	3950	2030	1220	1530	2780	3670	2300
23	579	2370	2110	2490	2870	3890	789	2180	1520	640	3680	4100
24	1330	2210	1610	7150	2920	3930	1800	1820	1470	1420	3670	3170
25	1530	2530	1040	7660	2080	2440	2860	1830	620	3390	3670	1840
26	2240	1590	2350	5400	762	810	2810	1460	963	3350	2790	3270
27	1400	720	5060	6890	1460	1890	3910	1430	1650	3330	632	3860
28	1210	1900	4630	7120	1690	2460	3900	743	2680	3520	1330	4450
29	801	3010	4580	7760	---	2470	3570	1020	3510	2710	3560	4440
30	658	3040	4750	7720	---	2450	1000	1530	2030	624	3830	3290
31	1350	---	3370	7710	---	2440	---	1520	---	2130	3790	---
TOTAL	39487	50612	85364	148375	113515	80422	59086	68216	49928	65640	86067	78180
MEAN	1274	1687	2754	4786	4054	2594	1970	2201	1664	2117	2776	2606
MAX	2240	3510	5060	7760	8410	4300	3910	4440	3510	3520	4270	4450
MIN	579	666	908	935	762	695	691	743	620	590	632	613

CAL YR 1977 TOTAL 895661 MEAN 2454 MAX 8370 MIN 511 MEAN† 2576 CFSM† 2.11 IN† 28.64
WTR YR 1978 TOTAL 924892 MEAN 2534 MAX 8410 MIN 579 MEAN† 2601 CFSM† 2.13 IN† 28.91

† Adjusted for change in contents in Lake Sidney Lanier.

02335700 BIG CREEK NEAR ALPHARETTA, GA.

LOCATION.—Lat 34°03'02", long 84°16'10", Fulton County, Hydrologic Unit 03130001, on left bank at downstream side of county highway bridge, 2.6 mi (4.2 km) southeast of Alpharetta, and 9.4 mi (15.1 km) upstream from mouth.

DRAINAGE AREA.—72 mi^2 (186 km^2), approximately.

PERIOD OF RECORD.—May 1960 to current year.

GAGE.—Water-stage recorder. Datum of gage is 960.80 ft (292.85 m) National Geodetic Vertical Datum of 1929 (levels by U.S. Soil Conservation Service).

REMARKS.—Records good except those for period of no gage-height record, Aug. 10 to Sept. 15, which are fair.

AVERAGE DISCHARGE.—18 years, 118 ft^3/s (3.34 m^3/s), 22.26 in/yr (565.4 mm/yr).

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 5,800 ft^3/s (164 m^3/s) Feb. 21, 1961, gage height, 12.54 ft (3.82 m); minimum daily, 10 ft^3/s (0.28 m^3/s) Oct. 6, 7, 1970.

EXTREMES FOR CURRENT YEAR.—Peak discharges above base of 800 ft^3/s (22.7 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 10	1800	879	24.9	8.09	2.466	Jan. 26	1900	1840	52.1	10.04	3.060
Nov. 6	1900	*1890	53.5	10.15	3.094						

Minimum daily discharge, 17 ft^3/s (0.48 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	63	132	142	160	102	81	160	51	23	83	28
2	108	65	100	118	174	95	79	130	48	23	36	28
3	108	71	87	103	158	151	77	94	50	29	27	27
4	45	200	83	95	143	138	76	135	49	22	88	26
5	36	611	82	93	137	105	74	117	44	20	182	25
6	33	1310	82	262	131	99	73	87	43	20	146	24
7	31	1080	70	371	121	96	71	93	53	21	591	24
8	44	375	69	427	120	115	70	168	103	20	432	23
9	546	174	78	675	123	265	69	347	163	19	282	23
10	760	129	74	589	123	625	67	182	74	24	320	22
11	339	106	68	214	118	571	82	111	59	20	120	22
12	97	93	68	167	116	239	106	95	55	19	95	21
13	67	85	68	176	142	174	110	124	58	20	80	21
14	59	80	91	159	141	213	89	101	49	23	70	20
15	52	77	97	127	112	182	72	87	46	66	60	21
16	49	75	79	116	106	143	67	82	43	186	70	24
17	46	96	78	251	101	124	65	75	41	52	58	23
18	44	85	231	287	106	116	116	78	38	35	49	22
19	43	73	141	269	103	111	271	75	37	30	45	20
20	41	69	107	583	96	108	166	65	39	27	42	19
21	40	67	94	510	96	106	104	61	38	26	38	19
22	39	71	84	236	93	103	89	58	36	25	35	18
23	39	93	79	179	92	98	83	57	33	23	33	18
24	38	87	80	174	93	95	79	63	32	23	32	19
25	162	75	219	738	89	93	177	58	35	26	31	21
26	457	69	152	1660	88	105	156	56	36	25	30	20
27	317	65	107	1100	85	97	103	94	33	25	33	19
28	118	93	95	341	96	91	86	64	28	28	35	18
29	86	116	87	216	---	88	79	80	27	23	31	18
30	75	97	160	181	---	85	74	62	24	21	30	17
31	68	---	223	167	---	82	---	55	---	21	29	---
TOTAL	4021	5750	3265	10726	3263	4815	2911	3114	1465	965	3233	650
MEAN	130	192	105	346	117	155	97.0	100	48.8	31.1	104	21.7
MAX	760	1310	231	1660	174	625	271	347	163	186	591	28
MIN	31	63	68	93	85	82	65	55	24	19	27	17
CFSM	1.81	2.67	1.46	4.81	1.63	2.15	1.35	1.39	.68	.43	1.44	.30
IN.	2.08	2.97	1.69	5.54	1.69	2.49	1.50	1.61	.76	.50	1.67	.34

CAL YR 1977 TOTAL 42426 MEAN 116 MAX 3180 MIN 16 CFSM 1.61 IN 21.92
WTR YR 1978 TOTAL 44178 MEAN 121 MAX 1660 MIN 17 CFSM 1.68 IN 22.82

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.

LOCATION.—Lat 33°51'33", long 84°27'16", Fulton-Cobb County line, Hydrologic Unit 03130001, on left bank 20 ft (6 m) upstream from Paces Ferry Bridge, at Atlanta, 1 mi (1.6 km) downstream from Rottenwood Creek, 2.5 mi (4.0 km) upstream from Peachtree Creek, and at mile 303.0 (487.5 km).

DRAINAGE AREA.—1,450 mi^2 (3,760 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—August 1928 to December 1931, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1304. Prior to October 1951, published as "near Vinings".

REVISED RECORDS.—WSP 972: 1932.

GAGE.—Water-stage recorder. Datum of gage is 750.10 ft (228.63 m) National Geodetic Vertical Datum of 1929. Aug. 3, 1928 to Dec. 31, 1931, water- stage recorder, and Nov. 15, 1936 to Mar. 8, 1937, nonrecording gage at same site and datum. Since June 1967, auxiliary water-stage recorder at bridge on U.S. Highway 41, 0.8 mi (1.3 km) upstream.

REMARKS.—Records good. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett, DeKalb, and Cobb Counties; return flows above station by Gwinnett and Cobb Counties. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant 9.5 mi (15.3 km) above station.

AVERAGE DISCHARGE.—45 years, 2,609 ft^3/s (73.9 m^3/s), 24.44 in/yr (620.8 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 59,000 ft^3/s (1,670 m^3/s) Jan. 9, 1946, gage height, 28.0 ft (8.53 m); minimum daily, 296 ft^3/s (8.38 m^3/s) Sept. 2, 1957.

EXTREMES OUTSIDE PERIOD OF RECORD.—Maximum stage known since at least 1896, 29.0 ft (8.84 m) in December 1919, from floodmarks at site 2.6 mi (4.2 km) downstream and stage relation between the two sites.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 15,200 ft^3/s (430 m^3/s) Jan. 26, maximum gage height, 15.84 ft (4.828 m), backwater from Peachtree Creek; minimum daily discharge, 1,040 ft^3/s (29.4 m^3/s) Sept. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1260	1080	3140	1310	7820	1990	2310	2400	1810	1160	2520	3760
2	1230	1350	3070	2800	7830	2050	1300	2310	2160	1160	2120	2820
3	1260	1200	2680	3420	7910	2490	1930	2290	1750	1160	2940	1040
4	1340	3010	1160	4030	6440	1760	2040	2100	1520	1570	3420	1190
5	1710	7100	2110	3630	1370	1340	3910	1680	1750	2000	3280	2050
6	1600	4690	3140	4030	3520	2080	2370	2020	1680	2030	1250	2060
7	1520	3890	3070	3920	8160	2850	2600	1520	2540	1870	3650	1860
8	1480	2420	2540	2640	8390	2750	1990	2590	2640	1730	4100	3180
9	4700	1570	3550	4930	8390	4100	1270	5200	2350	1130	4620	2520
10	2470	1500	2990	4780	8410	5560	1260	4740	1720	1300	4940	1090
11	2040	1590	1360	5440	6750	3780	2310	4330	1420	2080	4400	1500
12	1520	1230	2250	6570	1390	1670	2080	4260	1990	2280	6220	2050
13	1340	1130	2800	6930	2540	2640	2260	3530	3100	2500	1340	2590
14	1460	1300	3040	6940	3370	4710	2150	1430	3000	2370	1800	2960
15	1170	1710	3120	4500	3550	4610	1910	2120	3190	2340	4100	2520
16	1060	1590	2640	4260	3820	4700	1430	4210	2910	1250	2880	1790
17	1060	1800	2560	4830	5010	4670	1710	4320	2520	2040	2110	2130
18	1160	1740	1450	5090	4070	3610	2920	4360	1520	2970	2810	1920
19	1510	1400	1930	5250	1480	1420	3730	4360	1750	3110	1950	3600
20	1410	1070	2380	7050	2220	2580	3110	3990	1990	3050	1080	3020
21	1440	1520	2170	4840	3310	3910	2450	1490	1710	3180	1660	3080
22	1170	1900	2150	1770	3480	4400	2010	1990	1780	2670	3500	2350
23	1060	2550	2180	2690	3250	4180	1330	2730	1780	1280	3800	3020
24	1080	2440	1830	6050	3260	3840	2100	2180	1740	1450	3720	3510
25	2740	2380	1590	12900	2430	3460	3300	2170	1720	3430	3650	1710
26	3410	2000	2540	10100	1310	1290	3730	1910	1920	3390	2760	4140
27	1980	1070	4320	8150	1790	1970	4550	1340	1990	3340	1130	2780
28	1420	1640	4660	8090	2210	2820	4210	1320	2210	3250	1410	4290
29	1180	2940	4550	8080	---	2500	3680	1640	3780	2430	3160	4250
30	1060	3070	4700	7880	---	2750	1550	1900	2560	1090	3800	3550
31	1120	---	4030	7840	---	2740	---	2070	---	1790	3870	---
TOTAL	49960	63880	85700	170740	123480	95220	73500	84500	64500	66400	93990	78330
MEAN	1612	2129	2765	5508	4410	3072	2450	2726	2150	2142	3032	2611
MAX	4700	7100	4700	12900	8410	5560	4550	5200	3780	3430	6220	4290
MIN	1060	1070	1160	1310	1310	1290	1260	1320	1420	1090	1080	1040

CAL YR 1977 TOTAL 1005420 MEAN 2755 MAX 19300 MIN 1050 MEAN† 2877 CFSM† 1.98 IN† 26.88
WTR YR 1978 TOTAL 1050200 MEAN 2877 MAX 12900 MIN 1040 MEAN† 2944 CFSM† 2.03 IN† 27.56

† Adjusted for change in contents in Lake Sidney Lanier.

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	SPECIFIC CONDUCTANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT						
04...	0745	1100	40	5.9	12.0	10.0
28...	0700	1690	50	5.8	12.0	9.8
NOV						
25...	0855	2350	31	6.5	10.0	10.4
DEC						
12...	0800	1180	34	6.9	2.0	12.8
20...	0830	2370	40	6.7	10.0	10.6
JAN						
04...	0815	3860	33	6.6	6.0	--
10...	0930	7060	35	6.6	4.5	11.8
24...	0845	8860	28	7.2	6.0	12.8
FEB						
06...	1120	1980	36	7.0	5.0	12.0
21...	1030	2580	38	5.9	4.5	13.5
MAR						
06...	0730	1320	37	6.7	3.0	13.5
20...	0800	1320	38	6.6	8.5	11.7
APR						
03...	0900	1280	37	--	13.5	10.6
20...	0830	2040	36	5.9	12.0	10.4
MAY						
10...	0735	4010	36	6.4	13.0	10.0
23...	0800	3150	36	6.4	18.0	9.1
JUN						
08...	0745	2250	39	6.5	17.5	8.7
19...	0815	1660	35	6.0	17.3	9.0
JUL						
05...	0800	1310	37	6.9	16.7	9.2
18...	0700	3290	43	6.1	19.5	8.6
AUG						
01...	0700	1280	23	6.3	16.0	10.7
08...	0700	5660	40	6.6	18.5	8.7
23...	0800	5080	35	6.0	14.0	9.3
SEP						
07...	0800	1260	36	6.9	16.5	10.3
18...	1100	1200	33	6.8	15.5	11.2

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TUR-BID-ITY (NTU)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)
OCT												
04...	60	15	270	5800	--	--	--	--	7.5	36	25	.40
28...	40	15	1400	5800	--	--	--	--	7.1	34	28	.26
NOV												
25...	7.0	2	140	3600	--	--	--	--	6.6	32	5	.20
DEC												
12...	5.0	4	180	30	2.7	.9	2.5	1.4	6.7	34	6	.21
20...	10	2	340	630	--	--	--	--	7.9	43	12	.23
JAN												
04...	6.0	7	76	80	--	--	--	--	4.9	23	3	.16
10...	140	28	1500	K7900	--	--	--	--	5.8	39	70	.33
24...	30	5	70	540	--	--	--	--	4.6	26	64	.17
FEB												
06...	8.0	10	93	110	--	--	--	--	7.0	30	2	.29
21...	5.0	3	K13	K10	--	--	--	--	6.3	33	7	.25
MAR												
06...	6.0	5	--	--	--	--	--	--	6.9	25	5	.31
20...	10	10	670	110	2.1	.9	2.6	1.2	6.8	34	2	.29
APR												
03...	4.0	6	130	K10	--	--	--	--	6.7	34	2	.23
20...	40	15	--	970	--	--	--	--	6.3	32	38	.32
MAY												
10...	50	15	2200	3600	--	--	--	--	6.7	35	70	.33
23...	5.0	15	210	110	--	--	--	--	6.9	35	0	.36
JUN												
08...	25	15	--	3200	--	--	--	--	6.3	36	24	.37
19...	4.0	15	K730	77	--	--	--	--	5.9	22	6	.30
JUL												
05...	6.0	11	K700	380	--	--	--	--	5.5	56	13	.34
18...	50	16	1600	230	--	--	--	--	6.4	39	20	.41
AUG												
01...	15	18	310	200	--	--	--	--	6.3	44	48	.39
08...	200	51	K5300	K21000	--	--	--	--	14	45	497	.36
23...	9.0	8	200	170	--	--	--	--	6.0	37	21	.41
SEP												
07...	.00	12	K48	K30	2.5	1.0	2.5	1.5	5.5	38	5	.38
18...	3.0	13	120	--	--	--	--	--	5.4	28	3	.36

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	OIL AND GREASE (MG/L)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L)	IRON, TOTAL RECOVERABLE (UG/L AS FE)
OCT											
04...	.05	.18	.23	.63	2.8	.09	10	0	--	--	4000
28...	.03	.35	.38	.64	2.8	.07	5.2	0	--	--	2300
NOV											
25...	.05	.30	.35	.55	2.4	.02	5.8	0	--	--	200
DEC											
12...	.09	.05	.14	.35	1.6	.02	7.9	1	--	--	540
20...	.10	.17	.27	.50	2.2	.03	5.7	3	--	--	1300
JAN											
04...	.04	.35	.39	.55	2.4	.02	2.5	0	--	--	750
10...	.05	.72	.77	1.1	4.9	.20	5.9	0	--	--	9000
24...	.05	.16	.21	.38	1.7	.06	10	0	--	--	3400
FEB											
06...	.07	.17	.24	.53	2.3	.02	2.0	0	1.02	.000	0
21...	.03	.22	.25	.50	2.2	.02	.8	0	1.08	.372	470
MAR											
06...	.05	.16	.21	.52	2.3	.04	1.5	0	1.04	.571	500
20...	.00	.31	.31	.60	2.7	.02	5.3	1	.000	.000	460
APR											
03...	.01	.01	.02	.25	1.1	.01	1.8	3	1.50	.000	320
20...	.05	.38	.43	.75	3.3	.05	7.1	0	5.44	.000	1700
MAY											
10...	.04	.21	.25	.58	2.6	.10	6.4	0	3.19	.000	4700
23...	.01	.28	.29	.65	2.9	.03	6.1	0	1.44	.000	1000
JUN											
08...	.02	.25	.27	.64	2.8	.05	6.3	0	3.04	.000	0
19...	.01	.17	.18	.48	2.1	.02	6.2	0	.590	.000	400
JUL											
05...	.00	.20	.20	.54	2.4	.05	5.2	1	1.22	.000	800
18...	.00	.76	.76	1.2	5.2	.12	9.1	0	--	--	3900
AUG											
01...	.03	.25	.28	.67	3.0	.05	1.9	0	.570	.000	2700
08...	.04	1.4	1.4	1.8	7.8	.29	10	0	5.54	.000	26000
23...	.01	.19	.20	.61	2.7	.03	5.5	0	.000	.000	1200
SEP											
07...	.02	.26	.28	.66	2.9	.01	1.4	0	--	--	300
18...	.00	.11	.11	.47	2.1	.00	1.6	0	.000	.000	260

02336000 CHATTAHOOCHEE RIVER AT ATLANTA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	C.O.D. TOTAL IN BOTTOM MA-TERIAL (MG/KG)	NITRO-GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N)	PHOS-PHORUS, TOTAL IN BOT. MAT. (MG/KG AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC TOTAL IN BOT-TOM MA-TERIAL (UG/G AS AS)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CADMIUM RECOV. FM BOT-TOM MA-TERIAL (UG/G AS CD)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR)
DEC								
12...	--	--	--	0	--	0	--	<10
MAR								
20...	1200	250	20	0	1	0	<10	10
JUN								
08...	--	--	--	2	--	0	--	10
SEP								
07...	--	--	--	1	--	2	--	<10

DATE	CHRO-MIUM, RECOV. FM BOT-TOM MA-TERIAL (UG/G)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	LEAD, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS PB)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT-TOM MA-TERIAL (UG/L AS HG)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)	ZINC, RECOV. FM BOT-TOM MA-TERIAL (UG/G AS ZN)	OIL AND GREASE, TOTAL IN BOT-TOM MA-TERIAL (MG/KG)
DEC								
12...	--	17	--	<.5	--	0	--	--
MAR								
20...	<10	--	<10	<.5	.00	10	<10	.0
JUN								
08...	--	13	--	<.5	--	30	--	--
SEP								
07...	--	10	--	<.5	--	20	--	--

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
08...	2300	2190	15.0	140	828	88
09...	0415	5210	16.0	590	8300	74
09...	1315	4750	16.5	220	2820	66
25...	0510	1120	15.0	9	27	88
25...	1105	1300	15.0	48	168	86
25...	1800	4810	19.0	910	11800	76
25...	2130	6950	12.4	460	8630	86
26...	1045	3040	12.0	110	903	94
MAR						
23...	1325	4190	--	22	249	100

02336300 PEACHTREE CREEK AT ATLANTA, GA.

LOCATION.--Lat 33°49'10", long 84°24'28", Fulton County, Hydrologic Unit 03130001, on downstream side of bridge on Northside Drive at Atlanta, 0.4 mi (0.6 km) downstream from Tanyard Branch, and 4 mi (6.4 km) upstream from mouth.

DRAINAGE AREA.--86.8 mi^2 (225 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 763.96 ft (232.86 m) National Geodetic Vertical Datum of 1929, city of Atlanta bench mark. Prior to May 27, 1963, water-stage recorder at site 1,000 ft (305 m) downstream at same datum.

REMARKS.--Records fair except those for period of doubtful gage-height record, May 14 to June 19, which are poor.

AVERAGE DISCHARGE.--20 years, 137 ft^3/s (3.88 m^3/s), 21.43 in/yr (544.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,660 ft^3/s (245 m^3/s) Mar. 16, 1976, gage height, 20.30 ft (6.187 m); minimum daily, 8 ft^3/s (0.227 m^3/s) Aug. 10, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,460 ft^3/s (155 m^3/s) Jan. 25, gage height, 16.23 ft (4.947 m); minimum daily, 12 ft^3/s (0.340 m^3/s) Sept. 20, 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	80	103	67	80	66	45	1030	50	21	31	25
2	67	83	65	56	86	58	45	154	45	21	20	20
3	37	104	59	53	84	138	45	108	40	32	90	20
4	27	961	54	50	82	58	45	235	35	30	382	20
5	25	1520	56	48	79	48	45	99	32	20	111	19
6	24	404	52	317	77	46	44	56	100	20	135	18
7	23	142	48	95	74	52	44	225	250	21	445	18
8	116	80	49	628	74	86	42	890	375	20	193	20
9	1980	68	79	600	74	938	42	661	120	19	902	20
10	175	59	56	116	73	552	43	124	70	22	227	20
11	48	54	49	84	70	137	288	91	55	19	165	18
12	42	50	48	70	71	131	103	78	200	19	228	16
13	37	49	48	74	100	97	281	130	120	20	105	17
14	34	48	132	78	67	264	55	69	70	20	56	17
15	33	48	66	62	58	92	36	55	55	58	135	19
16	41	48	51	60	57	73	33	45	45	64	89	20
17	31	167	65	445	55	66	30	40	40	25	47	18
18	28	62	129	113	68	63	720	130	35	22	40	16
19	28	52	58	480	59	59	435	65	30	20	39	13
20	27	49	52	596	53	55	94	55	33	19	37	12
21	27	50	48	131	54	55	58	50	57	18	35	13
22	27	90	47	92	51	55	44	45	31	18	35	12
23	27	137	46	73	53	52	40	40	27	67	31	44
24	26	74	52	144	53	50	36	81	27	415	30	77
25	1210	60	476	2620	51	50	225	60	26	661	29	31
26	619	53	78	1190	50	54	60	45	25	60	29	18
27	115	50	57	180	48	49	36	128	26	142	89	15
28	88	290	52	120	125	48	32	248	25	91	29	14
29	74	105	48	99	---	48	30	222	23	31	23	14
30	72	101	301	90	---	46	29	67	23	31	22	13
31	79	---	131	84	---	45	---	58	---	49	23	---
TOTAL	5228	5138	2655	8915	1926	3631	3105	5376	2090	2095	3852	617
MEAN	169	171	85.6	288	68.8	117	104	173	69.7	67.6	124	20.6
MAX	1980	1520	476	2620	125	938	720	1030	375	661	902	77
MIN	23	48	46	48	48	45	29	40	23	18	20	12
CFSM	1.95	1.97	.99	3.32	.79	1.35	1.20	1.99	.80	.78	1.43	.24
IN.	2.24	2.20	1.14	3.82	.83	1.56	1.33	2.30	.90	.90	1.65	.26

CAL YR 1977 TOTAL 42946 MEAN 118 MAX 1980 MIN 12 CFSM 1.36 IN 18.41
WTR YR 1978 TOTAL 44628 MEAN 122 MAX 2620 MIN 12 CFSM 1.41 IN 19.13

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.59	3.82	3.85	3.67	3.98	3.90	3.62	7.13	3.96	3.34	3.38	3.38
2	3.73	3.84	3.64	3.61	4.00	3.86	3.62	4.19	3.96	3.34	3.27	3.33
3	3.56	3.96	3.60	3.58	3.99	4.26	3.62	3.97	3.95	3.43	3.61	3.34
4	3.47	6.89	3.59	3.57	3.98	3.86	3.62	4.53	3.95	3.42	4.97	3.34
5	3.45	8.49	3.60	3.56	3.97	3.80	3.62	3.93	3.95	3.33	3.88	3.32
6	3.44	5.20	3.57	4.76	3.96	3.79	3.61	3.69	4.03	3.32	3.87	3.32
7	3.43	4.12	3.55	3.83	3.95	3.83	3.61	4.38	4.41	3.33	5.25	3.32
8	3.90	3.80	3.56	5.74	3.95	4.00	3.60	6.23	5.03	3.32	4.22	3.34
9	9.23	3.73	3.73	5.80	3.95	6.50	3.60	6.15	4.08	3.31	6.23	3.35
10	4.29	3.68	3.60	4.02	3.94	5.67	3.61	4.26	4.00	3.34	4.39	3.35
11	4.11	3.64	3.55	3.85	3.92	4.12	4.68	4.09	3.99	3.31	4.12	3.32
12	4.08	3.61	3.55	3.78	3.93	4.09	3.93	4.04	4.25	3.29	4.39	3.30
13	4.04	3.59	3.55	3.80	4.07	3.92	4.71	4.30	4.13	3.30	3.84	3.31
14	4.01	3.59	4.00	3.82	3.90	4.63	3.68	3.96	3.99	3.31	3.59	3.31
15	4.00	3.58	3.66	3.73	3.86	3.89	3.55	3.95	3.99	3.56	3.94	3.34
16	4.07	3.58	3.57	3.71	3.86	3.79	3.52	3.94	3.98	3.63	3.76	3.35
17	3.99	4.15	3.65	5.31	3.84	3.75	3.50	3.93	3.98	3.36	3.54	3.33
18	3.96	3.65	3.99	3.99	3.91	3.73	6.07	4.25	3.98	3.32	3.49	3.30
19	3.96	3.58	3.61	5.43	3.87	3.70	5.33	3.94	3.82	3.29	3.49	3.28
20	3.95	3.56	3.57	5.85	3.84	3.68	3.90	3.93	3.46	3.28	3.47	3.26
21	3.95	3.56	3.55	4.09	3.84	3.68	3.70	3.92	3.63	3.28	3.45	3.27
22	3.95	3.77	3.54	3.89	3.82	3.68	3.61	3.92	3.46	3.27	3.45	3.26
23	3.95	4.01	3.54	3.79	3.83	3.66	3.57	3.92	3.42	3.52	3.43	3.48
24	3.95	3.69	3.57	4.22	3.83	3.65	3.55	4.02	3.41	4.83	3.42	3.76
25	7.18	3.61	5.40	10.91	3.82	3.65	4.49	3.92	3.40	6.01	3.41	3.46
26	5.81	3.57	3.73	7.41	3.81	3.68	3.69	3.91	3.39	3.57	3.41	3.33
27	4.01	3.55	3.61	4.46	3.81	3.64	3.55	4.23	3.40	3.94	3.73	3.30
28	3.87	4.67	3.58	4.18	4.19	3.63	3.52	4.46	3.39	3.76	3.42	3.29
29	3.79	3.86	3.56	4.07	---	3.64	3.50	4.39	3.37	3.40	3.36	3.29
30	3.78	3.83	4.73	4.02	---	3.63	3.49	3.98	3.36	3.38	3.35	3.28
31	3.82	---	4.00	4.00	---	3.62	---	3.97	---	3.48	3.36	---
MEAN	4.20	4.07	3.74	4.53	3.92	3.97	3.86	4.30	3.84	3.53	3.82	3.34
MAX	9.23	8.49	5.40	10.91	4.19	6.50	6.07	7.13	5.03	6.01	6.23	3.76
MIN	3.43	3.55	3.54	3.56	3.81	3.62	3.49	3.69	3.36	3.27	3.27	3.26

WTR YR 1978 MEAN 3.93 MAX 10.91 MIN 3.26

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to May 1972, July 1975 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 17...	1045	31	7.5	9.0	10.5	9.1
NOV 14...	1430	47	7.2	13.0	11.0	10.5
DEC 21...	1100	50	7.3	4.5	7.0	10.2
JAN 16...	1045	58	7.0	-4.0	2.0	--
FEB 13...	1100	107	7.1	8.0	7.5	11.0
MAR 20...	1100	55	7.3	18.0	13.0	9.5
APR 17...	1000	30	7.4	18.0	17.5	7.2
JUN 19...	1500	29	7.5	29.0	26.5	8.2
JUL 19...	0815	20	7.1	26.5	23.5	7.5
AUG 22...	1540	35	7.8	29.5	26.5	8.9
SEP 19...	0950	14	7.3	27.5	24.0	7.2

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 17...	148	12	1.2	9300	--	.60	.05	.04	3.0
NOV 14...	144	76	.6	15000	--	.56	.21	.14	4.0
DEC 21...	134	15	1.1	2300	--	.52	.16	.07	3.0
JAN 16...	138	15	2.9	2300	--	.72	.16	.05	3.0
FEB 13...	142	26	3.4	9300	--	.82	.20	.11	4.0
MAR 20...	139	11	1.3	2300	--	.69	.12	.07	2.0
APR 17...	151	13	1.0	2300	--	.39	.11	.03	2.0
JUN 19...	154	12	.9	930	--	.55	.02	.04	3.0
JUL 19...	154	16	1.4	4300	52	.42	.19	.06	3.0
AUG 22...	157	13	.9	5800	49	.35	<.02	.03	<1.0
SEP 19...	179	12	--	4300	54	.34	.12	.04	1.0

02336300 PEACHTREE CREEK AT ATLANTA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
08...	2120	478	18.0	440	568	63
08...	2215	538	18.0	540	784	73
08...	2340	588	18.0	530	841	77
09...	0330	4600	18.5	950	11800	76
09...	0615	3940	18.5	930	9890	77
09...	1400	1410	19.0	510	1940	85
10...	1410	164	18.0	100	44	89
25...	0420	68	15.5	78	14	66
25...	1030	370	16.5	640	639	80
25...	1330	550	16.2	690	1030	58
25...	1500	757	16.4	1030	2110	50
25...	1720	3420	--	950	8770	85
25...	2200	2480	14.5	780	5220	87
26...	1110	350	14.0	240	227	92

02336502 CHATTAHOOCHEE RIVER AT I-285, AT ATLANTA, GA.

LOCATION.--Lat 33°48'32", long 84°29'43", Cobb-Fulton County line, Hydrologic Unit 03130002, at bridge on Interstate Highway 285, 0.3 mi (0.5 km) upstream from Proctor Creek, 0.5 mi (0.8 km) downstream from Southern Railway bridge, and at Atlanta city limits.

DRAINAGE AREA.--1,600 mi^2 (4,140 km^2).

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions above station by Gwinnett, DeKalb, and Cobb Counties; return flows above station by Gwinnett and Cobb Counties. Considerable diurnal fluctuation caused by Morgan Falls hydroelectric plant. Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 17...	0945	1300	7.4	8.0	13.5	9.0
NOV 14...	1545	1450	7.2	15.0	15.0	9.0
DEC 21...	1000	1750	7.0	3.5	12.0	8.1
JAN 16...	0900	4600	6.8	-5.0	6.0	--
FEB 14...	0800	3000	6.7	3.0	8.0	8.9
MAR 20...	1030	1480	6.8	17.0	15.0	7.6
APR 17...	1110	1200	7.2	17.0	19.0	8.0
MAY 24...	1315	1550	6.9	28.0	24.0	8.0
JUN 19...	1400	1440	7.0	33.0	22.5	8.3
JUL 17...	0815	1500	7.0	26.0	22.0	7.4
AUG 22...	0800	5100	6.9	24.5	24.5	8.0
SEP 20...	0755	2400	6.8	24.5	20.0	8.5

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 17...	75	11	.6	<30	--	6	52	.39	1.0	.30	2.0
NOV 14...	89	15	.2	<30	--	10	60	.38	1.8	.44	4.0
DEC 21...	68	15	2.1	230	--	12	18	.23	.73	.26	3.0
JAN 16...	49	21	1.2	430	--	30	80	.22	.39	1.3	4.0
FEB 14...	67	11	.8	150	--	13	62	.30	.68	.26	<1.0
MAR 20...	82	11	2.0	<30	--	8	78	.31	.90	.13	1.0
APR 17...	84	13	2.6	<30	--	19	76	.26	1.0	.31	2.0
MAY 24...	102	26	7.2	1.10E+07	--	41	108	.41	2.5	.60	6.0
JUN 19...	89	16	10	1500	--	22	72	.40	1.6	.53	7.0
JUL 17...	65	62	2.9	<30	17	52	102	.45	.90	.26	3.0
AUG 22...	48	44	1.4	930	14	6	132	.36	.20	.10	<1.0
SEP 20...	64	5	1.5	<30	15	11	40	.37	.76	.27	<1.0

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.

LOCATION.--Lat 33°46'22", long 84°36'53", Douglas County, Hydrologic Unit 03130002, on right bank 100 ft (30 m) upstream from bridge on Interstate Highway 20, 400 ft (122 m) upstream from Blair Bridge, 3 mi (4.8 km) southeast of Austell, and 5.5 mi (8.8 km) upstream from mouth.
DRAINAGE AREA.--246 mi^{2} (637 km^{2}).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1904 to December 1905, November to December 1913, March 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.
REVISED RECORDS.--WSP 1724: 1949(M).
GAGE.--Water-stage recorder. Datum of gage is 857.01 ft (261.22 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). May 6, 1904, to Dec. 31, 1905, and Nov. 3 to Dec. 27, 1913, nonrecording gage at site 2.5 mi (4.0 km) upstream at different datum. Mar. 24 to Nov. 29, 1937, nonrecording gage at present site and datum.
REMARKS.--Records good.
AVERAGE DISCHARGE.--42 years (1904-5, 1937-78), 333 ft^{3}/s (9.43 m^{3}/s), 18.39 in/yr (467.1 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,400 ft^{3}/s (295 m^{3}/s) Nov. 29, 1948, gage height, 18.4 ft (5.608 m); minimum daily, 2.1 ft^{3}/s (0.059 m^{3}/s) Oct. 9, 1954.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 8, 1916 reached a stage of about 20.0 ft (6.10 m), from information by local resident; discharge, 12,600 ft^{3}/s (357 m^{3}/s), from rating extended above 6,500 ft^{3}/s (184 m^{3}/s) on basis of contracted-opening measurement at gage height, 18.2 ft (5.55 m).
EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 1,800 ft^{3}/s (51.0 m^{3}/s) and maximum (*):

Date	Time	Discharge (ft^{3}/s)	Discharge (m^{3}/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^{3}/s)	Discharge (m^{3}/s)	Gage height (ft)	Gage height (m)
Nov. 7	0300	*5480	155	14.14	4.310	Jan. 27	0500	4760	135	12.72	3.877

Minimum discharge, 26 ft^{3}/s (0.74 m^{3}/s) Sept. 23, 24, gage height, 0.51 ft (0.155 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	114	188	331	382	454	345	234	821	173	88	58	50
2	108	173	315	327	444	324	227	1070	153	83	51	47
3	111	171	284	286	426	387	223	898	168	79	50	47
4	95	743	259	259	401	372	218	676	223	77	47	45
5	86	2510	274	250	380	317	213	625	211	76	183	45
6	81	4310	274	419	362	284	209	513	165	72	134	44
7	76	5080	239	576	330	272	206	448	230	70	202	40
8	78	3020	215	703	329	300	199	601	600	66	669	37
9	1060	888	222	1550	325	458	194	928	816	62	638	34
10	1220	474	233	1480	328	1180	190	821	640	63	441	33
11	1020	375	217	934	319	1010	234	605	398	61	343	29
12	399	323	209	499	310	713	360	432	279	55	307	27
13	236	291	205	479	325	491	411	423	279	55	475	29
14	199	269	233	465	337	519	358	385	320	57	281	31
15	178	252	267	400	314	517	283	310	319	87	216	35
16	165	241	245	357	296	440	233	277	211	101	153	39
17	150	306	231	561	288	376	212	253	176	95	137	43
18	142	314	617	695	295	340	481	275	155	84	117	45
19	130	270	574	660	306	321	1160	293	143	68	101	39
20	120	237	436	1240	291	310	1020	260	137	59	90	34
21	116	222	338	1050	277	301	697	223	140	53	84	30
22	114	228	286	716	268	304	402	199	135	48	81	29
23	113	312	257	503	259	301	327	186	129	69	75	27
24	112	313	247	466	260	288	292	384	115	129	71	29
25	420	285	473	2140	257	277	348	274	107	94	63	34
26	1200	250	445	4060	256	286	416	201	203	69	62	37
27	1050	224	368	4540	246	279	352	198	235	64	60	38
28	721	245	294	3050	282	264	291	176	122	66	60	34
29	351	320	262	1010	---	254	256	314	102	59	57	31
30	259	315	331	552	---	247	237	256	94	52	53	29
31	215	---	430	484	---	238	---	204	---	60	53	---
TOTAL	10439	23149	9611	31093	8965	12315	10483	13529	7178	2221	5412	1091
MEAN	337	772	310	1003	320	397	349	436	239	71.6	175	36.4
MAX	1220	5080	617	4540	454	1180	1160	1070	816	129	669	50
MIN	76	171	205	250	246	238	190	176	94	48	47	27
CFSM	1.37	3.14	1.26	4.08	1.30	1.61	1.42	1.77	.97	.29	.71	.15
IN.	1.58	3.50	1.45	4.70	1.36	1.86	1.59	2.05	1.09	.34	.82	.16

CAL YR 1977 TOTAL 144411 MEAN 396 MAX 7290 MIN 34 CFSM 1.61 IN 21.84
WTR YR 1978 TOTAL 135486 MEAN 371 MAX 5080 MIN 27 CFSM 1.51 IN 20.49

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV 17...	0945	284	7.2	19.0	13.0	9.4
JAN 17...	1630	692	6.4	8.0	4.0	12.0
FEB 14...	0835	338	6.7	3.0	7.0	10.6
MAR 21...	0900	299	7.2	13.0	13.0	8.4
APR 19...	0730	1240	6.6	16.5	16.5	7.5
JUN 20...	0815	134	6.8	25.0	23.0	5.9
JUL 17...	0915	97	6.8	28.5	23.5	6.4
AUG 22...	0905	85	7.2	26.0	24.5	6.6
SEP 18...	0850	45	7.0	26.0	22.5	6.3

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 17...	64	16	.5	230	--	.30	.05	.04	3.0
JAN 17...	59	120	1.1	1500	--	.41	.10	--	6.0
FEB 14...	59	15	.6	930	--	.34	.03	.04	<1.0
MAR 21...	57	16	.7	930	--	.31	<.02	.03	2.0
APR 19...	52	224	4.1	9300	--	.29	.08	.30	12
JUN 20...	80	18	5.0	4300	--	.37	<.02	.03	13
JUL 17...	74	16	1.2	230	27	.26	.05	.03	3.0
AUG 22...	82	17	.5	2300	28	.23	<.02	.02	<1.0
SEP 18...	97	11	--	150	32	.16	.10	<.02	2.0

02337000 SWEETWATER CREEK NEAR AUSTELL, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
JAN							
04...	0915	263	3.0	7.0	4	2.8	87
FEB							
16...	0900	296	5.0	5.0	14	11	--
MAR							
29...	0940	254	11.0	7.0	12	8.2	--
MAY							
10...	1420	829	19.5	37	58	131	86
JUN							
21...	1040	138	23.0	15	22	8.2	100
AUG							
03...	0900	50	23.5	9.0	22	3.0	88

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.

LOCATION.--Lat 33°39'24", long 84°40'25", Fulton-Douglas County line, Hydrologic Unit 03130002, at downstream end of pier of bridge on State Highways 74 and 92, 1.4 mi (2.3 km) downstream from Deep Creek, 8.5 mi (13.7 km) northwest of Fairburn, and at mile 281.8 (453.4 km).

DRAINAGE AREA.--2,060 mi^2 (5,340 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 719.07 ft (219.17 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation).

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta.

AVERAGE DISCHARGE.--13 years, 3,872 ft^3/s (110 m^3/s), 25.53 in/yr (648.5 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,300 ft^3/s (971 m^3/s) Mar. 16, 1976, gage height, 24.09 ft (7.343 m); minimum daily, 1,000 ft^3/s (28.3 m^3/s) July 1, 1970.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,600 ft^3/s (668 m^3/s) Jan. 26, gage height, 20.42 ft (6.224 m); minimum daily, 1,170 ft^3/s (33.1 m^3/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1900	1560	4120	2600	8860	2840	3230	5340	2010	1780	2770	4080
2	1410	1580	3880	2230	8840	2500	1800	4670	1950	1180	3090	3870
3	1500	1810	3620	4240	8890	3140	1770	3610	2100	1190	3310	1690
4	1450	5110	2270	4350	8420	2890	2350	3720	1510	1270	4400	1230
5	1700	16300	1980	4250	3280	2040	4180	2670	1360	1990	5120	1710
6	1780	13500	3760	5290	2570	1960	2850	2640	1590	1980	2190	2230
7	1770	11200	3740	5900	8110	3240	2710	2370	2440	2000	3750	2110
8	1840	7570	4130	4140	9030	3270	2730	3430	4180	2000	6340	3000
9	9380	4020	4320	9790	9060	4640	1900	9020	3790	1350	6240	3050
10	5030	2750	3850	7060	9070	10000	1580	6630	2810	1260	7470	1610
11	3680	2280	2440	7320	8770	6670	2180	5340	1720	1610	5670	1170
12	2820	2200	1820	7550	3090	3610	3370	5020	1570	2410	5660	1900
13	2200	1850	3160	8040	2240	2650	3360	5120	3180	2380	3150	2550
14	1740	1760	3610	8070	3990	5960	2870	2690	2950	2530	1870	2970
15	1890	2000	3720	5660	4080	5900	2510	1880	3040	2640	4620	2590
16	1450	2350	3480	5170	4160	5620	1950	4190	2900	2110	4470	2570
17	1420	2630	3460	6580	5520	5500	1650	4700	2780	1590	3030	2320
18	1390	2660	2830	7030	5630	5010	4070	4870	1420	2990	2830	1520
19	1640	2310	2460	7010	2530	2570	6850	4900	1250	3270	3060	3690
20	1860	1870	3010	10500	1930	2150	4930	4640	1460	3260	1640	3090
21	1790	1710	2710	8380	3650	4300	3820	2590	1700	3340	1370	3000
22	1770	2400	2610	3820	3980	5120	3010	1770	1880	3170	3670	2630
23	1460	3360	2590	2730	3580	4740	2130	2700	1700	2010	3990	2870
24	1400	3290	2510	6380	3590	4500	1860	2690	1630	1890	4050	4570
25	2870	2990	3140	15400	3610	4680	3930	2360	1220	4190	4200	1860
26	9040	2910	2500	22800	2080	2360	4190	2210	1210	4090	3700	3840
27	4190	1860	4880	17300	1820	1900	5010	2150	1880	3700	1980	2910
28	3010	1920	5380	13100	2600	3050	4540	1510	1790	3940	1510	4510
29	1980	3850	5240	10100	---	3260	4530	2090	3640	3630	2810	4560
30	1660	3860	5780	9070	---	3270	2730	2390	2980	1540	4000	4460
31	1600	---	6430	9010	---	3170	---	2090	---	1410	4210	---
TOTAL	78620	115460	109430	240870	142980	122510	94590	112000	65640	73700	116170	84160
MEAN	2536	3849	3530	7770	5106	3952	3153	3613	2188	2377	3747	2805
MAX	9380	16300	6430	22800	9070	10000	6850	9020	4180	4190	7470	4570
MIN	1390	1560	1820	2230	1820	1900	1580	1510	1210	1180	1370	1170

CAL YR 1977 TOTAL 1348770 MEAN 3695 MAX 25100 MIN 1150 MEAN† 3817 CFSM† 1.85 IN† 25.11
WTR YR 1978 TOTAL 1356130 MEAN 3715 MAX 22800 MIN 1170 MEAN† 3782 CFSM† 1.84 IN† 24.98

† Adjusted for change in contents in Lake Sidney Lanier.

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to May 1972, March 1974 to current year.

PERIOD OF DAILY RECORD.—
SPECIFIC CONDUCTANCE: July 1976 to current year.
pH: July 1976 to current year.
WATER TEMPERATURES: October 1975 to current year.
DISSOLVED OXYGEN: July 1976 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.—
SPECIFIC CONDUCTANCE: Maximum, 134 micromhos June 21, 1977; minimum, 33 micromhos July 7, 1976.
pH: Maximum, 7.0 units Feb. 1, 1977; minimum, 5.7 units Aug. 2-6, 1977.
WATER TEMPERATURE: Maximum, 30.0°C July 12, 1977; minimum, 3.0°C Jan. 18, 1977.
DISSOLVED OXYGEN: Maximum, 13.1 mg/L Mar. 24, 1977; minimum, 1.6 mg/L July 26, 1977.

EXTREMES FOR CURRENT YEAR.—
SPECIFIC CONDUCTANCE: Maximum, 125 micromhos Oct. 19, June 21; minimum, 36 micromhos Jan. 26.
pH: Maximum, 6.5 units Dec. 25; minimum, 5.5 units Aug. 12, Sept. 13.
WATER TEMPERATURE: Maximum, 29.5°C July 3; minimum, 4.0°C Jan. 28, 29, Feb. 7.
DISSOLVED OXYGEN: Maximum, 12.8 mg/L Jan. 11, 28; minimum, 3.0 mg/L July 4, 25.

REMARKS.—Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT							
04...	0900	1660	103	--	--	20.0	5.9
18...	0730	1380	104	7.1	7.0	15.0	--
18...	0915	1370	108	--	--	15.0	--
28...	0830	3250	--	6.7	--	17.5	7.6
NOV							
21...	1045	1690	98	6.8	20.0	14.0	--
25...	1015	2980	73	6.3	--	15.5	--
DEC							
12...	0945	1600	110	6.8	--	8.5	10.0
15...	1000	3780	61	6.6	14.0	12.0	9.0
20...	0945	3090	69	6.7	--	12.0	9.1
JAN							
04...	1010	4410	55	6.6	--	7.0	--
10...	1100	6500	60	7.0	--	5.5	11.7
16...	1400	5020	58	6.7	5.0	5.5	11.7
24...	1100	5780	63	7.0	--	6.0	12.0
FEB							
06...	1245	2340	96	6.6	--	7.0	10.4
14...	1430	3630	70	6.7	6.0	7.5	11.0
21...	1300	3510	66	6.9	--	7.0	11.8
MAR							
06...	1000	1840	86	6.9	--	6.5	10.2
20...	0950	1870	84	6.6	--	12.0	9.6
21...	1400	4050	64	6.9	20.0	13.0	9.9
APR							
03...	1040	1650	--	6.8	--	16.5	7.7
19...	0840	6890	64	6.7	17.0	16.0	7.5
20...	1000	4790	60	6.4	--	14.5	9.0
MAY							
10...	0910	6650	58	6.4	--	16.0	8.5
23...	0930	2900	68	6.4	--	20.0	7.0
JUN							
05...	1005	1350	103	6.8	26.0	23.0	4.6
08...	0915	4970	80	5.9	--	22.0	5.2
19...	1000	1200	--	6.0	--	22.0	5.4
JUL							
05...	0845	2250	79	7.0	25.5	25.0	5.5
05...	0930	2270	72	6.8	--	24.5	5.7
18...	0915	2950	71	6.4	--	23.0	7.1
AUG							
01...	0835	3630	66	6.8	22.5	22.5	7.2
01...	0900	3620	66	6.4	--	22.5	6.9
08...	0900	6800	60	6.6	--	23.0	7.0
23...	0930	3670	62	6.5	--	17.5	9.8
SEP							
07...	1000	2420	76	6.7	--	21.0	8.7
07...	1145	2290	80	6.8	29.0	20.0	8.[illegible]
18...	0800	1430	75	6.6	--	21.0	7.8

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TUR- BID- ITY (JTU)	TUR- BID- ITY (NTU)	OXYGEN DEMAND, CHEM- ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L)	COLI- FORM, FECAL, EC BROTH (MPN)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG)
OCT										
04...	--	60	--	30	--	--	140	370	--	--
18...	16	--	47	--	3.6	40	--	--	--	--
18...	--	5.0	--	10	--	--	K7	K7	--	--
28...	--	65	--	20	--	--	3600	3100	--	--
NOV										
21...	19	--	17	--	4.5	2300	--	--	--	--
25...	--	10	--	11	--	--	300	780	--	--
DEC										
12...	--	8.0	--	21	--	--	K23	K23	4.6	1.2
15...	23	--	12	--	3.2	1500	--	--	--	--
20...	--	25	--	14	--	--	360	270	--	--
JAN										
04...	--	8.0	--	12	--	--	K13	K7	--	--
10...	--	85	--	24	--	--	1300	1700	--	--
16...	17	--	8	--	2.0	90	--	--	--	--
24...	--	20	--	7	--	--	120	540	--	--
FEB										
06...	--	15	--	31	--	--	K46	67	--	--
14...	18	--	7	--	2.0	150	--	--	--	--
21...	--	8.0	--	9	--	--	130	73	--	--
MAR										
06...	--	35	--	52	--	--	--	--	--	--
20...	--	20	--	25	--	--	230	K38	4.2	1.5
21...	21	--	9	--	2.8	90	--	--	--	--
APR										
03...	--	15	--	15	--	--	33	K17	--	--
19...	130	--	23	--	5.4	9300	--	--	--	--
20...	--	90	--	30	--	--	--	1100	--	--
MAY										
10...	--	50	--	15	--	--	2800	360	--	--
23...	--	8.0	--	20	--	--	--	2000	--	--
JUN										
05...	24	--	--	20	4.6	430	--	--	--	--
08...	--	90	--	65	--	--	--	28000	--	--
19...	--	15	--	30	--	--	538	18	--	--
JUL										
05...	15	--	15	--	2.0	9300	--	--	--	--
05...	--	20	--	15	--	--	K8000	210	--	--
18...	--	60	--	24	--	--	198	K73	--	--
AUG										
01...	35	--	15	--	3.7	4300	--	--	--	--
01...	--	10	--	32	--	--	--	--	--	--
08...	--	250	--	49	--	--	K38000	6600	--	--
23...	--	9.0	--	10	--	--	33	50	--	--
SEP										
07...	--	6.0	--	16	--	--	--	--	3.6	1.2
07...	13	--	8	--	4.4	430	--	--	--	--
18...	--	7.0	--	15	--	--	--	--	--	--

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K)	SILICA, DIS- SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N)
OCT									
04...	--	--	8.7	62	44	--	.88	1.8	1.3
18...	--	--	--	--	22	112	.92	1.6	.30
18...	--	--	9.7	57	16	--	.84	1.7	.60
28...	--	--	8.9	56	77	--	.38	.59	.40
NOV									
21...	--	--	--	--	13	76	.67	1.2	.20
25...	--	--	8.6	50	17	--	.38	.48	.52
DEC									
12...	6.4	2.1	9.5	60	16	--	.60	1.2	.40
15...	--	--	--	--	43	78	.31	.51	.59
20...	--	--	10	59	21	--	.47	.84	.56
JAN									
04...	--	--	6.6	36	14	--	.31	.66	.25
10...	--	--	7.7	58	53	--	.37	.43	.77
16...	--	--	--	--	13	64	.30	.44	.16
24...	--	--	8.8	50	71	--	.42	.61	.25
FEB									
06...	--	--	10	56	28	--	.40	1.3	.90
14...	--	--	--	--	20	74	.44	.60	.27
21...	--	--	9.0	46	17	--	.39	.58	.31
MAR									
06...	--	--	9.6	66	50	--	.45	1.3	3.1
20...	6.1	2.0	9.9	59	40	--	.50	1.1	.80
21...	--	--	--	--	51	184	.45	.57	.32
APR									
03...	--	--	9.7	62	15	--	.44	1.1	.80
19...	--	--	--	--	268	350	.38	.41	.79
20...	--	--	7.6	47	108	--	.38	.38	.82
MAY									
10...	--	--	8.0	44	84	--	.36	.28	.32
23...	--	--	8.2	48	3	--	.57	.61	.79
JUN									
05...	--	--	--	--	36	--	.58	1.6	.10
08...	--	--	7.2	58	264	--	.45	.60	2.2
19...	--	--	8.6	58	29	--	.66	1.3	1.0
JUL									
05...	--	--	--	--	8	106	.50	.25	.05
05...	--	--	7.5	59	50	--	.68	.80	.80
18...	--	--	7.3	54	16	--	.70	.51	.99
AUG									
01...	--	--	--	--	83	116	.66	.52	.58
01...	--	--	6.9	50	85	--	.64	.48	.52
08...	--	--	14	54	445	--	.47	.33	1.2
23...	--	--	6.4	48	26	--	.66	.59	.36
SEP									
07...	6.5	2.3	7.1	57	23	--	.82	.86	.44
07...	--	--	--	--	13	52	.86	.91	--
18...	--	--	7.1	53	19	--	.91	.66	.44

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)	OIL AND GREASE (MG/L)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)
OCT									
04...	3.1	4.0	18	1.0	8.9	0	--	--	3300
18...	1.9	2.8	12	.60	4.0	--	--	--	--
18...	2.3	3.1	14	.62	7.1	0	--	--	1000
28...	.99	1.4	6.1	.30	4.3	9	--	--	4200
NOV									
21...	1.4	2.1	9.2	.40	3.0	--	--	--	--
25...	1.0	1.4	6.1	.23	6.1	0	--	--	1200
DEC									
12...	1.6	2.2	9.7	.30	8.5	0	--	--	1000
15...	1.1	1.4	6.2	.24	2.5	--	--	--	--
20...	1.4	1.9	8.3	.37	4.3	2	--	--	2200
JAN									
04...	.91	1.2	5.4	.26	3.6	1	--	--	1300
10...	1.2	1.6	7.0	.25	9.0	0	--	--	4300
16...	.60	.90	4.0	.21	2.0	--	--	--	--
24...	.86	1.3	5.7	.21	9.5	0	--	--	1800
FEB									
06...	2.2	2.6	12	.55	3.8	2	2.09	.996	1200
14...	.87	1.3	5.8	.50	<1.0	--	--	--	--
21...	.89	1.3	5.7	.35	2.3	0	.999	.991	1200
MAR									
06...	4.4	4.9	21	.6	6.4	0	--	--	2500
20...	1.9	2.4	11	.31	6.0	1	.000	.000	1600
21...	.89	1.3	5.9	.37	3.0	--	--	--	--
APR									
03...	1.9	2.3	10	.33	6.6	1	1.05	.000	1200
19...	1.2	1.6	7.0	.41	6.0	--	--	--	--
20...	1.2	1.6	7.0	.24	6.5	0	5.01	.000	7500
MAY									
10...	.60	.96	4.3	.22	5.8	1	1.59	.000	3600
23...	1.4	2.0	8.7	.48	5.0	0	1.33	.000	3800
JUN									
05...	1.7	2.3	10	.53	5.0	--	--	--	--
08...	2.8	3.3	14	.84	8.9	0	2.83	.000	23000
19...	2.3	3.0	13	.45	7.4	0	.000	.000	1500
JUL									
05...	.30	.90	4.0	.16	5.0	--	--	--	--
05...	1.6	2.3	10	.45	6.9	0	2.44	.000	2000
18...	1.5	2.2	9.7	.50	7.5	2	--	--	4700
AUG									
01...	1.1	1.8	7.8	.37	5.0	--	--	--	--
01...	1.0	1.6	7.3	.37	3.5	0	1.40	.000	3600
08...	1.5	2.0	8.7	.48	6.1	1	3.78	.000	19000
23...	.95	1.6	7.1	.34	6.9	0	1.46	.000	1700
SEP									
07...	1.3	2.1	9.4	.07	2.0	0	.000	.000	690
07...	<.10	--	--	.25	5.0	--	--	--	--
18...	1.1	2.0	8.9	.27	3.7	0	.000	.000	520

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	C.O.D. TOTAL IN BOTTOM MA- TERIAL (MG/KG)	NITRO- GEN,NH4 + ORG. TOT IN BOT MAT (MG/KG AS N)	PHOS- PHORUS, TOTAL IN BOT. MAT. (MG/KG AS P)	ARSENIC TOTAL (UG/L AS AS)	ARSENIC TOTAL IN BOT- TOM MA- TERIAL (UG/G AS AS)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD)	CADMIUM RECOV. FM BOT- TOM MA- TERIAL (UG/G AS CD)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR)
DEC								
12...	--	--	--	0	--	0	--	<10
MAR								
20...	2100	530	240	0	1	2	<10	<10
JUN								
08...	--	--	--	3	--	0	--	30
SEP								
07...	--	--	--	1	--	1	--	<10

DATE	CHRO- MIUM, RECOV. FM BOT- TOM MA- TERIAL (UG/G)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB)	LEAD, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS PB)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG)	MERCURY RECOV. FM BOT- TOM MA- TERIAL (UG/L AS HG)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN)	ZINC, RECOV. FM BOT- TOM MA- TERIAL (UG/G AS ZN)	OIL AND GREASE, TOTAL IN BOT- TOM MA- TERIAL (MG/KG)
DEC								
12...	--	5	--	<.5	--	20	--	--
MAR								
20...	<10	13	<10	<.5	.00	30	40	.0
JUN								
08...	--	--	--	<.5	--	250	--	--
SEP								
07...	--	11	--	<.5	--	30	--	--

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT						
09...	0145	2170	20.0	80	469	82
09...	1200	12300	19.0	600	19900	91
09...	1715	12000	18.5	450	14600	83
10...	1300	4230	18.0	230	2630	83
25...	1335	1650	19.0	43	192	89
25...	1800	2760	18.0	230	1710	84
25...	2100	6860	17.5	730	13500	83
26...	0740	11100	16.0	440	13200	90
26...	1600	7700	16.5	290	6030	79

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	113	75	118	92	78	57	82	54	55	41	111	71
2	115	94	121	101	70	60	93	60	54	42	93	75
3	92	87	107	97	71	63	61	49	54	37	95	78
4	109	88	109	64	92	66	62	52	57	41	96	68
5	112	87	71	48	102	67	61	51	94	55	98	89
6	104	79	63	51	77	47	72	57	101	72	99	90
7	111	77	55	48	66	49	64	50	69	41	95	74
8	107	77	72	53	70	49	92	60	52	41	85	73
9	102	49	90	69	66	55	71	49	53	43	84	58
10	70	55	102	83	72	57	63	52	54	43	72	52
11	92	61	107	75	80	61	67	51	56	43	60	55
12	94	73	---	---	92	77	75	46	93	58	77	61
13	108	81	---	---	84	65	70	48	97	90	87	76
14	108	89	---	---	88	60	75	46	78	70	79	57
15	114	100	113	94	75	58	69	57	75	62	58	54
16	---	---	105	80	75	56	63	60	71	63	60	49
17	100	86	107	81	73	60	83	58	64	48	59	53
18	117	92	95	76	95	63	66	54	60	50	59	52
19	125	103	104	78	81	66	71	55	95	61	81	60
20	119	85	103	89	81	72	69	48	100	84	91	82
21	107	79	101	91	77	65	61	49	97	67	73	64
22	103	79	99	78	83	69	80	62	72	63	62	53
23	102	87	107	70	82	71	93	69	72	59	63	55
24	93	87	78	66	81	76	77	43	80	58	67	57
25	104	88	70	62	110	65	65	41	74	57	63	55
26	62	54	70	57	81	69	49	36	92	67	90	63
27	74	63	92	62	72	49	47	37	92	83	91	85
28	80	75	98	85	55	47	49	39	118	78	91	72
29	104	80	99	58	57	49	56	39	---	---	84	62
30	103	90	67	61	63	53	51	41	---	---	82	65
31	101	92	---	---	62	45	55	40	---	---	74	67
MONTH	125	49	121	48	110	45	93	36	118	37	111	49

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	76	64	84	62	112	86	108	71	111	73	72	51
2	103	71	84	63	122	93	119	106	87	59	70	51
3	99	89	89	73	113	89	107	101	77	59	102	60
4	103	74	92	73	123	102	119	100	78	55	101	93
5	109	48	94	84	111	99	103	71	63	44	111	76
6	83	56	103	81	117	91	96	74	106	46	86	76
7	95	75	102	83	124	86	93	73	97	57	98	78
8	103	70	103	60	85	68	100	76	80	58	92	51
9	109	73	73	54	88	66	109	79	69	52	74	57
10	109	99	63	56	101	71	106	97	60	53	105	66
11	120	100	65	56	100	87	115	89	68	57	111	92
12	98	76	66	57	105	96	93	66	78	56	103	79
13	98	74	77	57	101	71	85	66	84	60	98	69
14	91	71	88	61	81	68	85	65	96	79	78	63
15	102	76	91	84	83	63	84	65	83	50	84	63
16	100	84	108	55	78	67	95	76	71	50	88	61
17	98	92	75	54	83	66	98	83	80	54	101	54
18	107	93	72	55	105	75	92	66	91	64	105	65
19	---	---	71	56	104	92	69	58	94	60	98	55
20	74	63	72	56	110	97	70	61	104	66	80	59
21	88	63	93	57	125	88	79	63	107	85	88	60
22	94	67	97	87	111	82	74	62	---	---	98	60
23	100	78	107	73	116	85	89	66	47	29	84	60
24	99	91	96	73	118	85	---	---	---	---	64	47
25	97	68	115	75	117	101	93	61	75	61	97	60
26	76	61	118	72	115	103	73	63	75	59	105	51
27	66	56	115	76	111	89	73	58	117	60	88	59
28	68	56	117	99	115	84	77	63	116	96	70	50
29	71	54	113	89	102	54	79	61	114	60	63	50
30	90	58	103	78	77	63	120	71	69	49	71	49
31	---	---	112	89	---	---	117	104	72	48	---	---
MONTH	120	48	118	54	125	54	120	58	117	29	111	47

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.1	6.0	6.2	6.1	6.1	6.1	6.0	5.9	6.3	6.2	6.3	6.2
2	6.1	6.0	6.2	6.2	6.1	6.1	6.2	6.0	6.2	6.2	6.3	6.3
3	6.0	6.0	6.2	6.1	6.1	6.1	6.2	6.1	6.2	6.2	6.3	6.3
4	6.1	6.0	6.1	5.8	6.1	6.1	6.2	6.1	6.2	6.2	6.3	6.3
5	6.1	6.0	5.9	5.6	6.1	5.8	6.2	6.2	6.3	6.2	6.4	6.3
6	6.1	6.0	5.9	5.8	6.1	5.9	6.3	6.2	6.4	6.3	6.4	6.3
7	6.0	6.0	5.9	5.8	6.1	5.9	6.2	6.2	6.4	6.2	6.4	6.3
8	6.0	5.8	6.0	5.8	6.2	6.0	6.3	6.2	6.2	6.2	6.4	6.3
9	6.0	5.8	6.1	6.0	6.1	6.0	6.3	6.2	6.3	6.2	6.3	6.2
10	6.0	5.8	6.2	6.1	6.1	6.1	6.3	6.2	6.3	6.2	6.3	6.1
11	6.0	6.0	6.2	6.2	6.2	6.1	6.3	6.1	6.3	6.3	6.2	6.2
12	6.0	6.0	---	---	6.2	6.2	6.2	6.1	6.3	6.3	6.3	6.2
13	6.1	6.0	---	---	6.2	6.1	6.2	6.2	6.4	6.3	6.3	6.3
14	6.2	6.1	---	---	6.2	6.1	6.3	6.2	6.4	6.3	6.3	6.2
15	6.2	6.1	6.4	6.3	6.1	6.0	6.3	6.3	6.3	6.2	6.2	6.1
16	---	---	6.4	6.3	6.1	6.0	6.3	6.3	6.3	6.3	6.2	6.2
17	6.3	6.2	6.3	6.3	6.1	5.9	6.3	6.2	6.3	6.3	6.2	6.2
18	6.3	6.2	6.3	6.2	6.2	5.9	6.3	6.2	6.3	6.3	6.2	6.2
19	6.3	6.2	6.3	6.3	6.1	6.0	6.3	6.3	6.4	6.3	6.3	6.2
20	6.3	6.2	6.4	6.3	6.1	6.0	6.3	6.2	6.4	6.4	6.3	6.3
21	6.2	6.1	6.4	6.3	6.2	6.1	6.3	6.2	6.4	6.4	6.3	6.2
22	6.2	6.1	6.3	6.0	6.2	6.1	6.3	6.2	6.4	6.3	6.2	6.2
23	6.1	6.0	6.2	6.1	6.2	6.1	6.4	6.3	6.4	6.2	6.2	6.2
24	6.0	5.9	6.1	6.1	6.2	6.1	6.4	6.2	6.3	6.3	6.3	6.0
25	5.9	5.8	6.1	6.1	6.5	6.0	6.3	6.0	6.3	6.3	6.3	6.2
26	6.0	5.5	6.1	6.1	6.0	6.0	6.1	5.9	6.3	6.3	6.2	6.2
27	6.1	6.0	6.1	6.1	6.0	5.9	6.0	5.9	6.4	6.3	6.3	6.2
28	6.1	6.0	6.1	6.0	5.9	5.9	6.1	6.0	6.4	6.2	6.3	6.2
29	6.2	6.1	6.1	5.9	6.0	5.9	6.2	6.1	---	---	6.3	6.2
30	6.2	6.1	6.1	6.0	5.9	5.9	6.3	6.2	---	---	6.3	6.2
31	6.2	6.1	---	---	5.9	5.8	6.3	6.2	---	---	6.3	6.2
MONTH	6.3	5.5	6.4	5.6	6.5	5.8	6.4	5.9	6.4	6.2	6.4	6.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	6.2	6.2	6.1	5.9	6.1	6.0	6.0	5.9	5.9	5.8	6.1	6.0
2	6.3	6.2	6.2	6.0	6.0	5.9	6.0	6.0	5.9	5.8	6.1	6.0
3	6.3	6.1	6.2	6.1	6.0	5.9	6.1	6.0	5.8	5.8	6.1	6.1
4	6.2	6.1	6.2	6.1	6.0	6.0	6.1	6.0	5.8	5.7	6.2	6.1
5	6.2	6.0	6.1	6.1	6.1	6.0	6.1	5.9	5.8	5.7	6.1	5.9
6	6.1	6.0	6.2	6.1	6.1	6.0	6.0	5.9	5.8	5.8	6.0	5.8
7	6.2	6.1	6.2	6.1	6.1	5.9	6.0	5.9	5.9	5.8	6.0	5.7
8	6.2	6.0	6.1	5.7	6.0	5.9	5.9	5.8	5.9	5.8	5.9	5.9
9	6.1	6.1	5.9	5.8	6.0	5.9	5.9	5.8	5.8	5.8	5.9	5.8
10	6.2	6.1	6.0	5.9	6.0	6.0	5.9	5.9	5.8	5.7	5.9	5.8
11	6.2	6.1	6.1	6.0	6.0	6.0	6.0	5.9	5.8	5.7	5.9	5.7
12	---	---	6.1	6.0	6.0	6.0	5.9	5.9	5.9	5.5	5.7	5.6
13	---	---	6.1	6.0	6.1	6.0	5.9	5.9	5.9	5.8	5.9	5.5
14	---	---	6.1	6.0	6.0	5.9	5.9	5.8	6.0	5.9	5.9	5.8
15	---	---	6.1	6.1	6.0	5.9	5.9	5.8	6.0	5.8	5.9	5.8
16	---	---	6.1	5.9	6.0	5.8	5.9	5.9	5.9	5.8	5.9	5.8
17	---	---	6.0	5.9	5.9	5.8	5.9	5.9	6.0	5.9	5.9	5.7
18	---	---	6.1	5.9	5.9	5.8	5.9	5.8	6.0	5.9	5.8	5.7
19	---	---	6.0	5.9	5.9	5.9	5.9	5.8	5.9	5.8	5.8	5.7
20	6.3	6.1	6.0	5.9	6.0	5.9	5.9	5.8	5.8	5.7	5.9	5.8
21	6.2	6.1	6.0	5.9	6.0	5.9	5.9	5.8	5.9	5.8	5.9	5.8
22	6.2	6.1	6.0	6.0	6.1	6.0	5.9	5.8	---	---	5.9	5.8
23	6.2	6.1	6.0	5.9	6.0	5.9	5.9	5.7	5.8	5.7	5.9	5.8
24	6.2	6.1	5.9	5.9	5.9	5.8	---	---	---	---	5.9	5.7
25	6.1	5.9	6.0	5.9	6.0	5.9	5.9	5.7	5.9	5.8	5.9	5.7
26	6.0	6.0	6.1	6.0	6.0	5.9	5.9	5.8	5.9	5.8	5.9	5.7
27	6.0	5.9	6.0	6.0	6.0	5.9	5.9	5.8	6.0	5.9	5.8	5.7
28	6.0	5.9	6.0	6.0	6.0	5.9	5.9	5.8	6.0	5.9	5.9	5.7
29	6.0	5.9	6.0	5.9	5.9	5.8	5.9	5.8	6.0	5.9	5.8	5.7
30	6.0	5.9	6.0	5.8	5.9	5.8	5.9	5.8	6.0	5.9	5.8	5.7
31	---	---	6.1	6.0	---	---	5.9	5.8	6.0	5.9	---	---
MONTH	6.3	5.9	6.2	5.7	6.1	5.8	6.1	5.7	6.0	5.5	6.2	5.5

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	21.0	19.5	19.0	18.0	14.0	13.5	10.5	9.0	5.5	5.0	9.0	8.0
2	25.0	21.5	19.0	18.0	13.5	12.5	9.5	8.5	6.0	5.5	9.0	8.0
3	23.5	21.5	19.0	17.5	13.0	12.5	8.0	7.0	6.0	5,5	8.0	7.0
4	21.5	20.0	18.0	17.5	15.5	12.5	8.0	7.5	5.5	5.5	8.0	6.5
5	20.5	18.5	18.0	17.5	17.0	15.0	9.0	7.5	7.0	5.5	8.5	6.5
6	19.5	18.0	17.5	17.0	15.5	11.0	9.5	9.0	7.0	5.5	11.0	6.5
7	20.0	17.5	17.5	17.0	11.0	9.5	10.0	9.5	5.0	4.0	10.5	8.5
8	20.5	18.0	17.5	17.0	10.5	9.0	12.5	10.0	5.0	4.5	9.0	8.5
9	20.0	18.0	17.5	17.0	11.0	10.5	11.5	7.5	5.5	5.0	9.0	7.5
10	19.0	17.5	18.0	15.5	10.5	9.0	7.5	5.0	6.0	5.5	8.0	6.5
11	19.5	17.0	15.0	13.0	9.0	9.0	6.0	4.5	6.0	5.0	9.5	7.5
12	19.0	16.5	---	---	10.5	8.5	6.5	6.0	8.5	6.0	12.0	9.5
13	18.0	16.0	---	---	11.5	9.0	7.0	6.0	10.5	8.0	14.0	12.0
14	17.5	16.0	---	---	13.0	11.5	7.0	6.0	8.5	7.5	14.0	12.5
15	17.5	16.0	12.0	11.0	13.5	12.0	6.0	5.5	7.5	6.0	12.5	11.5
16	---	---	13.5	11.0	13.0	11.5	6.5	5.5	8.5	7.0	11.5	10.0
17	16.0	14.5	14.0	13.5	13.0	12.0	7.0	5.5	8.0	7.0	10.0	9.0
18	17.5	15.0	14.5	13.5	13.0	12.0	6.5	5.5	7.0	6.5	9.0	8.0
19	17.5	16.5	13.5	13.0	12.5	11.5	7.0	6.5	9.5	7.0	12.0	8.5
20	17.5	15.0	14.5	13.0	12.5	12.0	6.5	5.5	9.5	7.5	15.5	11.5
21	17.5	16.0	15.0	13.5	12.0	11.0	5.5	5.0	10.0	7.0	13.0	12.0
22	18.0	15.5	15.0	13.5	11.0	10.0	6.0	5.5	7.0	5.5	12.0	11.0
23	17.5	16.5	16.0	14.5	9.5	9.0	7.0	6.0	6.5	5.5	12.5	11.5
24	18.5	16.5	16.0	15.0	11.0	9.5	6.5	6.0	8.0	5.5	13.0	11.5
25	19.0	18.0	16.0	15.0	12.0	10.5	6.5	5.5	9.5	6.5	12.5	11.5
26	17.0	16.5	15.0	12.0	10.5	8.5	6.5	6.0	11.0	8.0	13.0	12.0
27	17.5	16.5	12.5	11.0	8.5	7.0	5.5	4.5	11.0	8.5	12.0	11.0
28	18.0	17.5	12.5	12.0	8.5	7.5	5.0	4.0	10.5	9.0	12.0	10.5
29	20.0	18.5	12.0	11.0	8.5	7.5	5.0	4.0	---	---	14.0	11.0
30	19.0	18.5	14.0	12.5	8.5	8.0	5.0	4.5	---	---	14.0	12.5
31	19.0	18.0	---	---	9.0	8.0	5.5	4.5	---	---	15.0	13.0
MONTH	25.0	14.5	19.0	11.0	17.0	7.0	12.5	4.0	11.0	4.0	15.5	6.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	15.0	13.5	16.5	15.5	24.0	21.5	25.5	20.5	26.5	22.5	19.0	16.5
2	18.5	14.5	17.5	16.0	24.0	21.5	29.0	25.5	23.5	18.5	18.0	16.5
3	19.5	16.0	16.5	15.5	22.0	20.5	29.5	28.0	20.0	18.0	22.5	17.0
4	19.5	17.0	16.0	14.5	24.5	22.0	28.5	27.0	20.5	19.0	24.5	21.5
5	19.5	14.0	18.0	15.5	25.0	22.5	27.0	22.0	20.0	16.5	24.0	23.0
6	16.5	14.0	18.5	17.0	25.0	23.0	22.5	21.5	23.0	18.0	22.5	20.5
7	18.0	16.0	18.5	18.0	25.0	22.0	22.5	20.5	25.0	22.0	22.0	20.0
8	18.5	15.5	19.5	18.0	22.5	21.5	23.0	21.5	23.5	20.5	22.0	18.5
9	19.0	16.0	19.0	16.0	22.5	20.0	27.5	23.0	22.0	18.5	20.0	18.5
10	21.5	18.0	17.0	15.0	22.5	20.0	28.0	26.0	20.0	16.0	24.0	19.0
11	20.5	19.0	16.5	14.5	24.0	22.0	28.0	27.0	18.0	16.0	25.5	22.0
12	18.5	17.0	16.0	14.0	26.0	23.0	27.5	20.5	18.0	17.0	24.5	22.5
13	18.0	16.0	16.5	14.5	26.0	22.5	23.5	19.5	23.0	18.0	24.0	18.0
14	17.5	15.5	18.0	15.5	22.0	19.0	22.0	18.0	26.0	23.0	20.0	17.5
15	18.0	16.0	19.0	16.5	21.5	18.5	21.0	17.5	26.0	18.0	20.0	17.0
16	18.5	16.5	18.5	13.5	20.5	18.0	22.5	19.5	21.0	18.5	20.0	16.0
17	19.5	18.0	15.5	13.0	20.0	17.5	25.5	22.5	23.5	18.0	21.5	17.5
18	19.0	18.5	16.0	13.5	23.5	20.0	24.5	22.0	25.0	22.0	24.5	19.0
19	---	---	16.5	14.0	24.5	21.0	21.5	18.0	22.0	19.0	24.5	17.0
20	15.5	14.5	17.0	14.5	25.5	23.0	20.5	18.5	25.0	21.0	21.0	18.0
21	15.0	13.5	19.5	14.5	26.0	23.5	21.0	18.0	24.5	24.0	21.0	18.5
22	15.0	12.5	22.5	19.5	25.0	23.0	20.0	18.0	27.0	18.5	24.0	18.0
23	16.0	14.0	22.0	19.5	25.0	23.5	22.5	20.0	19.0	17.0	23.0	18.5
24	17.5	14.5	22.0	18.0	25.5	24.0	---	---	19.0	17.0	19.0	15.0
25	17.5	15.0	23.5	20.0	28.0	25.0	25.5	21.0	18.5	17.0	21.0	16.0
26	15.0	12.5	24.5	20.5	29.0	26.5	20.5	18.5	19.0	17.0	22.0	15.0
27	13.0	11.5	25.0	21.5	28.5	26.5	19.5	17.0	23.0	18.0	20.0	16.0
28	14.0	11.5	27.0	24.5	29.5	27.0	19.5	16.5	26.5	23.0	18.5	15.0
29	14.5	12.0	25.0	24.0	28.5	18.5	20.0	17.5	26.0	20.0	16.5	14.5
30	16.0	13.0	25.0	23.0	22.5	19.0	26.0	20.5	19.5	17.0	16.5	15.0
31	---	---	24.5	22.5	---	---	27.5	25.0	19.0	16.5	---	---
MONTH	21.5	11.5	27.0	13.0	29.5	17.5	29.5	16.5	27.0	16.0	25.5	14.5

02337170 CHATTAHOOCHEE RIVER NEAR FAIRBURN, GA.--Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.9	5.0	6.6	6.2	8.5	7.8	10.6	9.4	12.6	12.2	10.9	9.7
2	5.7	3.6	6.4	6.0	8.8	8.2	10.6	9.4	12.5	12.1	10.7	10.1
3	5.5	5.0	6.6	6.1	8.8	8.6	11.1	10.7	12.6	12.1	11.0	10.4
4	6.0	5.4	6.3	5.6	8.8	7.2	11.1	10.8	12.7	12.1	11.4	10.5
5	6.9	5.6	7.2	6.2	7.4	6.7	11.1	10.8	12.4	10.5	10.9	10.4
6	7.6	6.4	7.9	7.0	8.6	7.4	10.8	10.3	11.8	10.8	10.8	9.8
7	7.6	6.2	8.0	7.9	9.8	8.5	10.6	10.3	12.7	11.9	11.0	10.1
8	7.2	5.9	8.1	7.8	10.3	9.5	10.4	8.7	12.7	12.5	11.0	10.2
9	7.4	6.1	7.8	7.0	9.5	9.2	11.1	8.8	12.6	12.3	11.2	10.3
10	7.9	7.3	7.6	6.6	10.3	9.4	12.5	11.2	12.6	12.2	11.5	11.1
11	8.2	7.2	8.1	7.4	10.3	9.7	12.8	12.1	12.6	12.1	11.3	10.9
12	8.0	7.2	---	---	9.9	9.3	12.2	11.9	12.2	10.5	10.9	9.6
13	8.1	7.1	---	---	10.6	9.1	11.9	11.4	10.6	10.0	9.5	9.1
14	8.0	7.2	---	---	9.7	8.3	12.0	11.3	11.3	10.9	10.2	9.5
15	8.1	7.2	9.1	8.6	9.1	8.4	12.1	11.6	11.8	11.4	10.7	10.1
16	---	---	9.5	8.3	9.3	8.5	12.1	11.8	11.9	11.2	11.1	10.2
17	8.4	7.5	8.3	7.6	9.2	8.7	11.9	11.6	11.9	11.4	11.5	10.8
18	8.6	8.1	8.3	7.6	9.2	8.0	11.9	11.6	11.9	11.6	11.7	11.3
19	8.7	8.1	8.5	8.0	9.0	8.6	11.7	11.4	11.6	10.2	11.5	9.7
20	8.9	7.7	8.5	7.8	9.1	8.7	12.1	11.3	10.6	10.0	9.6	8.6
21	8.4	7.0	8.0	7.7	9.2	8.9	12.4	11.9	11.4	10.0	10.4	9.8
22	8.6	7.2	8.2	7.2	9.8	9.1	12.3	11.5	12.2	11.6	10.6	10.2
23	7.5	6.9	7.7	6.5	10.2	9.9	11.7	11.3	12.3	11.6	10.4	9.9
24	7.5	7.0	7.9	7.4	10.2	9.2	12.1	11.7	11.9	11.1	10.3	9.2
25	6.9	6.2	7.9	7.6	9.2	7.7	12.0	11.5	11.8	10.7	9.8	9.5
26	7.7	6.8	8.8	7.8	10.2	9.0	11.7	11.2	11.2	9.6	9.3	7.6
27	7.9	6.8	9.0	8.3	11.1	10.5	12.6	11.7	10.1	9.6	8.3	7.7
28	7.4	6.1	8.4	7.8	10.9	10.4	12.8	12.4	10.6	9.4	9.0	7.5
29	7.0	6.1	9.3	8.0	11.1	10.7	12.7	12.4	---	---	9.2	7.9
30	6.6	6.2	8.9	8.3	10.8	10.5	12.7	12.4	---	---	8.8	8.1
31	6.6	6.3	---	---	10.8	10.5	12.6	12.3	---	---	8.6	8.0
MONTH	8.9	3.6	9.5	5.6	11.1	6.7	12.8	8.7	12.7	9.4	11.7	7.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.5	8.1	7.7	7.0	7.3	5.7	7.8	5.1	7.2	4.6	10.4	8.7
2	8.1	6.3	8.2	7.0	6.7	5.1	5.1	4.1	8.6	6.8	10.6	9.3
3	7.1	6.1	8.2	7.8	6.9	5.4	4.2	3.8	8.7	8.0	10.2	6.8
4	7.9	5.8	8.2	7.4	5.1	4.6	4.0	3.0	8.3	6.5	6.9	6.4
5	9.4	6.0	7.5	7.1	4.7	4.2	6.9	4.1	9.6	7.4	7.3	6.4
6	9.4	7.5	7.6	6.8	5.3	4.0	6.9	6.3	9.0	6.5	8.2	7.4
7	8.1	7.1	7.3	6.8	5.8	3.9	7.2	6.1	7.4	4.9	8.6	7.2
8	8.8	6.8	6.7	6.1	6.4	4.7	7.1	5.9	8.6	7.0	9.7	7.1
9	8.4	6.0	8.5	5.8	7.2	5.5	6.6	4.8	9.0	7.5	9.4	8.6
10	6.3	5.7	9.0	8.3	7.1	6.0	4.9	4.6	10.2	7.5	9.0	6.3
11	6.1	4.1	9.3	8.6	5.9	5.1	5.0	4.1	10.0	9.1	6.6	5.5
12	6.9	3.9	9.4	8.6	5.2	4.4	8.0	4.9	9.3	8.6	7.2	5.7
13	8.4	6.7	9.3	8.1	6.6	4.4	8.4	6.1	9.2	7.0	9.0	6.2
14	8.6	7.1	8.7	7.1	7.8	6.7	8.9	7.3	6.9	5.6	9.3	8.4
15	8.7	6.9	7.2	6.7	8.1	7.0	9.0	7.4	8.7	5.6	9.4	7.9
16	8.1	6.4	9.4	6.6	8.4	7.4	7.8	6.4	8.7	7.6	9.8	7.9
17	6.8	5.9	9.5	8.4	8.4	7.5	6.3	5.5	9.0	6.8	9.6	6.9
18	6.9	6.0	9.5	8.4	7.4	5.5	7.5	5.6	8.5	6.1	8.9	5.9
19	---	---	9.2	8.2	5.7	5.0	8.8	7.7	9.2	7.9	9.6	6.0
20	9.0	8.1	9.3	8.1	5.1	3.7	8.9	8.2	8.9	6.6	9.3	7.7
21	9.4	---	9.3	6.4	5.4	3.9	9.0	7.8	6.9	6.1	9.3	7.7
22	9.5	8.0	6.5	5.5	6.0	4.0	8.8	8.2	9.3	5.9	9.4	6.2
23	9.0	7.4	7.0	5.3	5.9	4.7	8.6	5.7	9.6	8.8	9.3	7.2
24	8.0	7.2	7.5	5.3	5.6	4.4	---	---	9.6	9.0	9.5	8.4
25	8.8	7.4	7.0	4.6	4.6	4.3	8.3	3.0	9.6	8.8	8.7	6.2
26	9.6	8.3	7.5	5.2	4.4	3.9	9.2	8.4	9.7	8.6	9.6	5.9
27	10.3	9.8	7.3	5.0	4.8	3.5	9.7	8.7	9.5	6.2	9.2	7.2
28	10.2	9.4	5.7	5.2	5.6	3.9	9.6	8.3	6.3	5.7	9.6	8.7
29	10.2	9.0	6.2	4.4	8.8	4.8	9.6	8.6	10.2	5.7	9.6	8.6
30	9.7	7.5	7.4	5.8	8.6	7.2	8.3	5.6	10.6	9.7	9.5	8.7
31	---	---	7.1	5.9	---	---	5.5	4.7	10.5	8.9	---	---
MONTH	10.3	3.9	9.5	4.4	8.8	3.5	9.7	3.0	10.6	4.6	10.6	5.5

02337438 DOG RIVER NEAR FAIRPLAY, GA.

LOCATION.--Lat 33°37'20", long 84°47'35", Douglas County, Hydrologic Unit 03130002, at bridge on State Highway 166, 2.3 mi (3.7 km) upstream from mouth, and 4.2 mi (6.8 km) east of Fairplay.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV 21...	1200	101	6.9	20.0	10.0	11.0
JAN 16...	1500	114	6.5	10.0	5.0	12.2
FEB 14...	1400	87	6.8	6.0	7.0	12.0
MAR 21...	1315	95	7.2	24.0	15.0	9.2
APR 19...	0930	500	6.8	18.0	17.0	9.2
JUN 20...	0910	76	6.9	26.0	21.5	8.4
JUL 17...	1315	49	7.0	32.0	26.0	8.2
AUG 22...	1340	35	7.1	30.0	25.0	8.0
SEP 18...	1350	34	7.1	34.0	26.5	8.3

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, FC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 21...	35	11	.3	230	--	3	.17	<.02	<.02	<1.0
JAN 16...	36	10	.1	30	--	<1	.21	.02	<.02	<1.0
FEB 14...	31	11	.5	230	--	2	.21	<.02	<.02	<1.0
MAR 21...	31	10	.4	70	--	3	.17	<.02	<.02	<1.0
APR 19...	36	88	2.1	--	--	180	.18	.10	.13	4.0
JUN 20...	34	13	.3	150	--	6	.28	<.02	<.02	2.0
JUL 17...	30	19	.8	150	9	9	.18	<.02	<.02	1.5
AUG 22...	36	15	.5	70	12	<1	.15	<.02	<.02	<1.0
SEP 18...	32	13	--	60	10	1	.11	<.02	<.02	1.0

02337500 SNAKE CREEK NEAR WHITESBURG, GA.

LOCATION.--Lat 33°31'46", long 84°55'42", Carroll County, Hydrologic Unit 03130002, at downstream end of left bank pier of highway bridge, at Banning Mills, 1.5 mi (2.4 km) north of State Highway 16, 3 mi (4.8 km) northwest of Whitesburg, 4 mi (6.4 km) downstream from Little Snake Creek, and 7 mi (11.3 km) upstream from mouth.
DRAINAGE AREA.--37 mi^2 (96 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1954 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 850 ft (259 m), from topographic map.
REMARKS.--Records good.
AVERAGE DISCHARGE.--24 years, 58.2 ft^3/s (1.65 m^3/s), 21.36 in/yr (542.5 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,690 ft^3/s (218 m^3/s) Feb. 25, 1961, gage height, 14.40 ft (4.389 m); minimum, 2.3 ft^3/s (0.065 m^3/s) Oct. 7, 1954, gage height, 1.56 ft (0.475 m).
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 5	0300	2600	73.6	8.59	2,618	Jan. 25	2115	*4110	116	10.60	3.231

Minimum daily discharge, 16 ft^3/s (0.45 m^3/s) Oct. 6, 7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	24	42	47	72	55	44	209	36	28	51	25
2	19	23	38	45	70	48	43	99	37	27	28	25
3	18	25	36	44	69	53	43	76	56	26	28	25
4	17	576	36	43	62	48	43	104	42	26	47	23
5	17	1020	36	42	61	45	43	82	37	26	64	22
6	16	211	33	57	59	45	42	67	35	25	101	22
7	16	122	31	53	58	48	42	73	57	25	126	22
8	18	80	30	200	56	55	41	114	94	24	71	21
9	175	66	32	120	56	91	41	145	82	24	146	20
10	53	55	30	90	55	150	40	88	56	23	91	20
11	37	48	29	72	53	91	58	72	47	22	61	20
12	28	42	29	68	53	79	56	64	86	22	112	20
13	24	39	29	70	58	70	67	71	89	23	79	21
14	23	37	36	63	53	84	52	59	56	24	53	20
15	22	35	32	54	52	74	47	54	48	28	54	24
16	21	34	30	51	53	65	43	53	44	33	53	23
17	20	37	33	82	50	60	42	50	41	26	45	21
18	20	32	48	69	52	57	56	49	38	23	39	20
19	19	31	40	79	50	58	53	48	37	22	35	20
20	18	30	38	127	49	56	45	46	36	21	35	19
21	18	30	35	84	48	55	42	43	38	20	32	19
22	18	35	31	69	48	62	41	42	47	20	31	19
23	17	44	30	62	47	54	41	41	38	20	31	18
24	17	36	30	82	46	52	40	41	35	20	29	25
25	112	33	41	1210	46	51	63	40	33	20	28	24
26	98	30	36	404	46	51	49	39	34	20	29	21
27	47	29	36	190	45	49	45	37	37	21	33	20
28	35	50	36	115	56	48	42	37	32	21	28	20
29	29	43	36	92	---	46	40	49	30	19	27	19
30	27	41	50	82	---	46	39	41	28	26	26	18
31	25	---	50	77	---	45	---	38	---	86	25	---
TOTAL	1043	2938	1099	3943	1523	1891	1383	2071	1406	791	1638	636
MEAN	33.6	97.9	35.5	127	54.4	61.0	46.1	66.8	46.9	25.5	52.8	21.2
MAX	175	1020	50	1210	72	150	67	209	94	86	146	25
MIN	16	23	29	42	45	45	39	37	28	19	25	18
CFSM	.91	2.65	.96	3.43	1.47	1.65	1.25	1.81	1.27	.69	1.43	.57
IN.	1.05	2.95	1.10	3.96	1.53	1.90	1.39	2.08	1.41	.80	1.65	.64

CAL YR 1977 TOTAL 21841 MEAN 59.8 MAX 1020 MIN 14 CFSM 1.62 IN 21.96
WTR YR 1978 TOTAL 20362 MEAN 55.8 MAX 1210 MIN 16 CFSM 1.51 IN 20.47

02337500 SNAKE CREEK NEAR WHITESBURG, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
JUL 07...	0830	25	6.5	22.0	8.4
SEP 18...	0920	20	7.0	22.0	9.1

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
JUL 07...	26	30	7	0	1.7	.7	2.3	.9	10	0	8	1.0
SEP 18...	28	45	7	0	1.5	.7	2.6	1.0	15	0	12	1.1

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
JUL 07...	2.1	.0	9.6	31	.14	.62	.00	.00	.14	.14	.00	.03
SEP 18...	2.3	.0	9.7	28	.24	1.1	.01	.03	.12	.25	.00	.03

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
JUL 07...	.04	.44	.00	.47	.46	.03	.61	2.7	.01	.00	.00	.00
SEP 18...	.04	.14	.11	.14	.00	.14	.26	1.2	.01	.01	.01	.00

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)
JUL 07...	.00	20	1	0	1	130	20	<.5	0	10	6.6	1.4
SEP 18...	.00	30	0	2	2	100	30	<.5	0	20	.9	.5

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.

LOCATION.—Lat 33°28'37", long 84°54'04", Carroll-Coweta County line, Hydrologic Unit 03130002, at downstream end of right bank pier of bridge on State Highway 16, 0.5 mi (0.8 km) upstream from Central of Georgia Railroad bridge, 1.2 mi (1.9 km) southeast of Whitesburg, 1.5 mi (2.4 km) downstream from Cedar Creek, 2.0 mi (3.2 km) downstream from Snake Creek, and at mile 259.8 (418.0 km).

DRAINAGE AREA.—2,430 mi^2 (6,290 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.—October 1938 to June 1954, January 1965 to current year.

GAGE.—Water-stage recorder. Datum of gage is 682.06 ft (207.89 m) National Geodetic Vertical Datum of 1929. Prior to May 1, 1949, nonrecording gage at site 1.0 mi (1.6 km) upstream at datum 2.00 ft (0.61 m) higher. May 1, 1949 to June 30, 1954, nonrecording gage at present site at datum 2.00 ft (0.61 m) higher.

REMARKS.—Records good except those of no gage-height record, Oct. 8-19, which are fair. Flow regulated by Lake Sidney Lanier since January 1956. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Diversions and return flows above station regulated by Gwinnett, DeKalb, and Cobb Counties, and by the city of Atlanta.

AVERAGE DISCHARGE.—28 years, 4,055 ft^3/s (115 m^3/s), 22.66 in/yr (575.6 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.—Maximum discharge, 59,000 ft^3/s (1,670 m^3/s) Jan. 10, 1946, gage height, 25.1 ft (7.65 m), site and datum then in use, from graph based on gage readings, from rating extended above 30,000 ft^3/s (850 m^3/s) on basis of velocity-area and channel-capacity studies; minimum daily, 468 ft^3/s (13.3 m^3/s) Oct. 26, 1941.

EXTREMES FOR CURRENT YEAR.—Maximum discharge, 37,600 ft^3/s (1,065 m^3/s) Nov. 5, gage height, 21.87 ft (6.666 m); minimum daily, 1,300 ft^3/s (36.8 m^3/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2240	1870	4590	4390	9610	3590	3680	5790	2600	2790	2550	4290
2	1690	1800	4430	2460	9580	3190	2500	8000	2400	1570	2860	4180
3	1750	2080	4240	4440	9520	3540	2000	4770	2500	1490	3430	2650
4	1620	5280	3420	4490	9260	3690	2500	4670	2000	1520	3960	1360
5	1770	30100	2230	4870	5530	3080	3700	4020	1900	2040	5120	1520
6	2040	25400	3680	5240	3070	2990	4130	3450	2010	2350	3810	2380
7	2000	13900	4340	6640	7170	3450	3190	3000	2520	2390	2950	2340
8	2200	9340	4240	5150	9510	3930	3200	3900	5490	2250	6370	2500
9	10000	5810	4870	11300	9530	4370	2500	10400	5230	1880	5820	3370
10	7000	3560	4500	8350	9520	11300	2000	8200	3800	1440	8310	2450
11	4500	2980	3580	8190	9480	8320	1800	6500	2620	1620	6050	1300
12	3500	2880	2140	7950	5250	5320	4280	5860	2160	2560	5970	1790
13	2700	2450	3310	8620	3050	3360	3830	5970	3740	2620	4750	2450
14	1900	2290	3860	8780	4240	5570	3840	4600	3780	2860	2340	3050
15	2100	2420	4410	6950	4480	6950	3210	2500	3610	2780	3390	2980
16	1800	2900	4000	5830	4620	6270	2500	3000	3660	2830	5450	2840
17	1600	2940	3840	6690	5450	6170	2100	5270	3430	1770	3550	2250
18	1500	3310	3680	8150	6220	5930	3000	5360	2470	2610	2680	2210
19	1770	2830	3110	7440	4250	4120	8010	5490	1740	3400	3370	2860
20	2100	2400	3410	11800	3060	2700	6360	5240	1930	3550	2400	3420
21	2030	2120	3400	10100	3730	3800	4880	4510	2200	3480	1480	3300
22	2050	2680	3150	5870	4300	5440	3810	3000	2430	3370	2770	3240
23	1720	3520	3100	3410	4220	5430	2500	2500	2260	2960	3990	2680
24	1600	3850	3090	5710	4170	5290	2100	3200	2160	1960	4200	4210
25	1940	3490	3470	17700	4190	5170	3900	3000	1740	3260	4250	3220
26	10300	3400	3220	30400	3260	3900	4920	2800	1620	4390	4040	2780
27	5620	2740	4490	26400	3020	2300	5170	2600	2230	3840	2780	3890
28	3740	2150	5680	17000	3100	3000	5260	2000	2200	4000	1800	3850
29	2680	3980	5700	12000	---	3780	5190	2300	3230	3830	2150	4770
30	2140	4420	5920	10300	---	3610	4150	3000	3920	2470	3850	4730
31	1880	---	7350	9860	---	3680	---	2700	---	1470	4210	---
TOTAL	91480	158890	124450	286480	162390	143240	110210	137600	83580	81350	120650	88860
MEAN	2951	5296	4015	9241	5800	4621	3674	4439	2786	2624	3892	2962
MAX	10300	30100	7350	30400	9610	11300	8010	10400	5490	4390	8310	4770
MIN	1500	1800	2140	2460	3020	2300	1800	2000	1620	1440	1480	1300

CAL YR 1977 TOTAL 1579950 MEAN 4329 MAX 30100 MIN 1300 MEAN† 4451 CFSM† 1.83 IN† 24.84
WTR YR 1978 TOTAL 1589180 MEAN 4354 MAX 30400 MIN 1300 MEAN† 4421 CFSM† 1.82 IN† 24.70

† Adjusted for change in contents in Lake Sidney Lanier.

02338000 CHATTAHOOCHEE RIVER NEAR WHITESBURG, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to May 1972, July 1975 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 18...	0900	1620	7.1	7.0	9.0	8.4
NOV 17...	1100	3020	7.1	18.0	13.0	8.8
DEC 15...	1105	5110	6.7	15.5	11.5	6.4
JAN 17...	1520	6590	6.5	8.0	6.5	11.0
FEB 14...	1300	4960	6.7	5.0	8.0	11.0
MAR 23...	0930	5480	6.7	13.0	13.0	5.2
APR 18...	1410	3290	6.6	18.0	18.0	6.4
JUN 20...	0950	1920	6.6	27.0	23.0	4.9
JUL 18...	0915	2480	6.7	31.0	24.5	5.2
AUG 23...	0710	3790	6.8	24.0	22.0	6.7
SEP 18...	1300	2030	6.7	33.5	20.0	7.7

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	88	16	3.4	40	--	22	124	1.1	.65	.30	3.0
NOV 17...	70	18	2.4	230	--	37	92	.67	.38	.21	2.0
DEC 15...	81	32	5.4	9300	--	64	104	.60	.66	.35	5.5
JAN 17...	53	24	1.4	430	--	29	80	.38	.45	.20	3.0
FEB 14...	78	16	3.0	40	--	51	112	.59	.75	.30	1.0
MAR 23...	61	25	2.4	40	--	44	96	.55	.45	.26	<1.0
APR 18...	74	35	3.6	4300	--	74	152	.59	.58	.31	4.0
JUN 20...	83	20	3.6	2300	--	31	82	.92	.74	.31	4.0
JUL 18...	83	44	4.5	680	17	64	112	1.2	.70	.37	3.0
AUG 23...	53	40	2.6	4300	15	89	112	.80	.10	.24	<1.0
SEP 18...	50	9	--	430	12	16	52	.81	.12	.16	<1.0

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	TEMPERATURE (DEG C)	SEDIMENT, SUSPENDED (MG/L)	SEDIMENT DISCHARGE, SUSPENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
OCT 26...	0910	12500	14.0	770	26000	87

02338500 CHATTAHOOCHEE RIVER AT FRANKLIN, GA.

LOCATION.--Lat 33°16'45", long 85°06'00", Heard County, Hydrologic Unit 03130002, at bridge on U.S. Highway 27 at Franklin.

DRAINAGE AREA.--2,680 mi^2 (6,940 km^2), approximately.

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Records of discharge for the calendar years 1928-31 and 1938-39 are published in reports of the Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 18...	1100	7.3	17.0	22.0	7.8
NOV 17...	1230	7.1	18.0	14.0	8.3
DEC 15...	1315	6.7	17.5	12.5	8.8
JAN 17...	1100	6.5	4.0	6.0	11.2
FEB 15...	0900	7.0	-1.0	8.0	11.4
MAR 22...	1040	7.0	16.0	14.5	5.2
APR 18...	1300	6.7	18.0	18.0	6.6
JUN 21...	0910	6.7	28.0	26.0	6.4
JUL 18...	1010	6.8	33.5	25.5	6.3
AUG 23...	0830	6.7	27.0	26.5	4.6
SEP 18...	1120	6.9	32.0	22.5	7.4

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	91	17	1.4	200	--	23	110	1.2	.28	.25	4.0
NOV 17...	87	20	2.0	9300	--	35	108	.89	.72	.35	7.0
DEC 15...	64	23	1.9	750	--	45	82	.84	.29	.20	5.5
JAN 17...	53	19	1.5	430	--	28	56	.43	.24	.17	4.0
FEB 15...	65	24	1.4	40	--	39	86	.65	.39	.17	<1.0
MAR 22...	64	30	2.8	90	--	57	119	.77	.28	.22	<1.0
APR 18...	71	18	1.5	430	--	12	76	.71	.20	.15	1.5
JUN 21...	87	13	.9	<30	--	16	72	1.1	.20	.17	3.0
JUL 18...	80	22	1.6	430	14	16	68	1.1	.13	.39	1.5
AUG 23...	94	42	2.4	210	15	--	--	1.8	.40	.32	<1.0
SEP 18...	71	9	--	140	12	53	94	1.1	.11	.34	1.0

DATE	TIME	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
SEP 14...	1315	0	1	3	20	79	97	99

02338720 CHATTAHOOCHEE RIVER NEAR LA GRANGE, GA.

LOCATION.--Lat 33°04'42", long 85°06'39", Troup County, Hydrologic Unit 03130002, at La Grange water works intake, 1.2 mi (1.9 km) upstream from Yellowjacket Creek, and 5.3 mi (8.5 km) northwest of La Grange.

DRAINAGE AREA.--3,010 mi^2 (7,800 km^2), approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Flow regulated by Lake Sidney Lanier. (See "Lakes and Reservoirs in Apalachicola River Basin," station 02334400.) Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 18...	1245	7.4	20.0	19.5	10.0
NOV 17...	1330	6.4	18.5	15.0	7.2
DEC 15...	1405	6.9	18.5	11.0	9.5
JAN 17...	1200	6.4	9.0	5.5	11.0
FEB 15...	1025	6.8	.0	7.0	11.0
MAR 22...	1145	7.0	14.0	15.0	5.4
APR 18...	1240	7.1	18.0	18.0	9.2
JUN 21...	1005	9.0	27.5	28.0	10.2
JUL 18...	1210	8.3	37.0	30.0	11.0
AUG 23...	0945	8.9	31.5	29.0	1.0
SEP 20...	1005	6.8	30.5	28.0	10.4

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	76	25	1.7	4300	<30	--	47	.82	.18	.12	4.0
NOV 17...	57	50	1.3	4300	90	--	70	.38	.16	.42	9.0
DEC 15...	64	18	1.1	430	40	--	29	.60	.21	.13	2.5
JAN 17...	54	18	1.4	4300	110	--	11	.41	.18	.08	4.0
FEB 15...	47	22	1.1	2900	<30	--	28	.35	.17	.10	<1.0
MAR 22...	56	18	2.2	430	<30	--	21	.51	.09	.10	<1.0
APR 18...	71	10	3.5	2300	<30	--	13	.59	.07	.06	2.0
JUN 21...	72	5	3.0	23000	<30	--	5	.30	<.02	.03	5.0
JUL 18...	83	5	3.5	280	40	17	3	.50	<.02	.04	2.0
AUG 23...	66	10	3.0	--	<30	16	6	<.02	<.02	.04	2.0
SEP 20...	71	7	4.5	150	<30	20	13	.30	<.02	.11	2.0

02338720 CHATTAHOOCHEE RIVER NEAR LA GRANGE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
SEP								
13...	1540	95	96	98	99	100	100	100

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.

LOCATION.--Lat 32 53'10", long 85 10'56", Troup County, Hydrologic Unit 03130002, on right bank just downstream from Oseligee Creek at West Point, 1 mi (1.6 km) upstream from bridge on U.S. Highway 29, 2.5 mi (4.0 km) downstream from West Point Dam and at mile 198.9 (320.0 km).

DRAINAGE AREA.--3,550 mi^2 (9,190 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1896 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at site 0.8 mi (1.3 km) downstream since 1899 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 682: 1920, drainage area. WSP 972: 1931-32. WSP 1504: 1912, 1916-17.

GAGE.--Water-stage recorder. Datum of gage is 551.67 ft (168.15 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 20, 1912, nonrecording gage at site 0.8 mi (1.3 km) downstream at datum 2.83 ft (0.863 m) lower. Oct. 20, 1912 to Jan. 25, 1925, nonrecording gage at site 500 ft (152 m) upstream at present datum.

REMARKS.--Records good. Flow regulated by Lake Sidney Lanier since January 1956 and by West Point Lake since October 1974. (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400 and 02339400.)

AVERAGE DISCHARGE.--82 years, 5,649 ft^3/s (160 m^3/s), 21.61 in/yr (550.9 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 134,000 ft^3/s (3,790 m^3/s) Dec. 10, 1919, gage height, 30.0 ft 9.14 m) at site then in use; 29.25 ft (8.92 m) at present site, from floodmarks, from rating curve extended above 80,000 ft/s (2,270 m^3/s) on basis of computation of peak flow over Langdale Dam; minimum, 224 ft^3/s (6.34 m^3/s) Sept. 12, 1925, gage height, 1.64 ft (0.500 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1827, that of Dec. 10, 1919. Flood in 1886 reached a stage of 25.6 ft (7.80 m) at former site and datum, from floodmark, by National Weather Service, discharge, 92,800 ft^3/s (2,620 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 23,900 ft^3/s (677 m^3/s) Nov. 7, gage height, 12.97 ft (3.953 m); minimum daily, 698 ft^3/s (19.8 m^3/s) Aug. 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	800	5550	9990	703	16000	5800	887	8830	4370	804	801	7320
2	792	5550	9830	7700	16300	6100	888	16800	4390	800	792	783
3	3220	5560	973	8500	16300	6100	4800	16200	830	3390	790	760
4	3130	5900	810	7340	16300	870	6510	16400	830	3840	811	760
5	3140	9990	5030	8330	16300	870	4260	11800	902	3850	698	6840
6	3150	20000	11200	8490	16700	6050	4250	1170	4020	3410	742	6920
7	3160	22500	11500	1170	17300	6050	4310	8890	874	3400	4410	7020
8	922	15700	4690	738	17900	6150	1060	16100	911	828	6960	7120
9	846	15800	7190	8560	18700	4570	879	11100	943	820	7010	798
10	2680	14900	902	9900	19200	8290	2800	9030	827	3800	7040	752
11	3270	9640	804	11700	1970	5910	2960	8940	814	3600	7110	5740
12	3240	5380	6570	13100	882	5320	3050	4400	855	4080	861	5980
13	3180	4800	6460	14700	7180	7630	3060	960	857	4100	879	6150
14	3200	8880	7470	9110	7610	7760	3010	924	858	4110	5580	6110
15	2040	8860	6790	8180	7390	7780	1070	7050	3700	776	5450	6300
16	770	9010	6830	11600	7690	7720	916	7100	858	874	5590	802
17	3450	9090	886	12300	6010	7600	2890	7120	779	5620	5590	1960
18	4330	9110	869	13000	877	5390	3560	7300	809	5350	5750	6280
19	3400	5820	842	12800	876	7400	3750	7110	4250	5630	788	6250
20	3270	4680	5070	13100	3730	4570	3550	922	866	5500	801	6390
21	3300	9140	5100	1420	3680	4380	3410	832	1720	2960	858	6400
22	2900	9770	5320	976	3700	4510	1240	4880	4460	751	6690	6400
23	770	9490	5160	12200	3680	7710	915	5510	858	740	6700	786
24	3550	5810	825	13700	3700	7690	3170	5530	714	3970	6740	762
25	5000	5690	890	15400	855	1480	3470	5870	713	883	6800	6350
26	5350	766	8020	15900	1070	908	3020	5600	3630	2490	795	6500
27	4040	747	7770	17100	6500	6040	3210	843	3150	1440	780	6640
28	5020	9220	8780	16100	6000	6600	3210	831	894	903	7090	7150
29	836	9380	8070	16000	---	6550	1150	4360	1350	846	7180	6710
30	830	9510	8270	16000	---	6580	840	4330	3170	787	7230	818
31	5240	---	1700	16000	---	3940	---	4350	---	814	7290	---
TOTAL	88826	266243	164611	321817	244400	174318	82095	211082	54202	81166	126606	139551
MEAN	2865	8875	5310	10380	8729	5623	2737	6809	1807	2618	4084	4652
MAX	5350	22500	11500	17100	19200	8290	6510	16800	4460	5630	7290	7320
MIN	770	747	804	703	855	870	840	831	713	740	698	752

CAL YR 1977 TOTAL 2048461 MEAN 5612 MAX 25600 MIN 539 MEAN† 5769 CFSM† 1.63 IN† 22.13
WTR YR 1978 TOTAL 1954917 MEAN 5356 MAX 22500 MIN 698 MEAN† 5230 CFSM† 1.47 IN† 19.95

† Adjusted for change in contents in Lake Sidney Lanier and West Point Lake.

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.06	4.73	6.82	1.96	4.80	4.80	2.14	6.31	4.10	2.06	2.06	5.52
2	2.05	4.73	6.79	5.71	4.95	4.95	2.14	10.33	4.02	2.06	2.05	2.04
3	3.45	4.74	2.18	6.20	4.96	4.96	4.27	10.10	2.09	3.50	2.05	2.02
4	3.40	4.94	2.07	5.54	2.13	2.13	5.23	10.17	2.09	3.76	2.07	2.02
5	3.40	7.02	4.27	6.08	2.14	2.14	4.01	7.88	2.15	3.76	1.95	5.26
6	3.40	11.50	7.45	6.13	4.92	4.92	4.00	2.34	3.86	3.51	2.00	5.31
7	3.41	12.46	7.60	2.25	4.92	4.92	4.02	6.34	2.13	3.52	4.04	5.36
8	2.14	9.89	4.16	2.00	4.97	4.97	2.25	10.05	2.16	2.09	5.38	5.40
9	2.10	9.94	5.47	6.20	11.07	4.16	2.13	7.49	2.19	2.08	5.38	2.05
10	3.10	9.53	2.14	6.91	11.26	6.14	3.18	6.41	2.09	3.73	5.42	2.01
11	3.43	6.79	2.06	7.77	2.75	4.93	3.29	6.40	2.07	3.62	5.47	4.68
12	3.40	4.52	5.17	8.46	2.14	4.58	3.34	4.09	2.11	3.89	2.12	4.80
13	3.37	4.25	5.14	9.25	5.50	5.78	3.36	2.20	2.11	3.90	2.13	4.87
14	3.38	6.39	5.30	6.50	5.72	5.85	3.34	2.17	2.11	3.91	4.65	4.85
15	2.75	6.36	5.10	5.99	5.62	5.87	2.27	5.42	3.64	2.04	4.57	4.94
16	2.03	6.43	5.34	7.64	5.78	5.81	2.16	5.45	2.11	2.13	4.64	2.06
17	3.52	6.46	2.13	7.94	4.85	5.76	3.22	5.46	2.04	4.71	4.65	2.71
18	3.97	6.48	2.12	8.24	2.13	4.63	3.61	5.58	2.07	4.61	4.72	4.93
19	3.48	4.88	2.10	8.17	2.13	5.66	3.76	5.46	3.94	4.72	2.05	4.92
20	3.41	4.27	4.43	8.33	3.73	4.18	3.63	2.16	2.12	4.64	2.06	4.98
21	3.43	6.46	4.45	2.50	3.70	4.08	3.53	2.09	2.65	3.38	2.11	4.98
22	3.20	6.81	4.55	2.21	3.72	4.15	2.37	4.31	4.06	2.01	5.20	4.99
23	2.03	6.68	4.47	7.89	3.70	5.82	2.16	4.62	2.11	2.00	5.22	2.04
24	3.56	4.82	2.08	8.82	3.72	5.81	3.39	4.64	1.97	3.83	5.23	2.02
25	4.39	4.73	2.14	9.42	2.11	2.49	3.61	4.81	1.97	2.13	5.25	4.95
26	4.60	2.03	5.92	9.70	2.23	2.16	3.29	4.67	3.64	3.09	2.05	5.10
27	3.90	2.01	5.78	10.46	5.16	4.92	3.41	2.10	3.39	2.52	2.04	5.17
28	4.41	6.48	6.37	10.10	6.38	5.24	3.37	2.09	2.14	2.15	5.41	5.48
29	2.10	6.59	5.93	10.03	---	5.22	2.29	4.01	2.41	2.10	5.46	5.15
30	2.09	6.65	6.04	10.02	---	5.23	2.10	3.99	3.40	2.05	5.48	2.07
31	4.54	---	2.58	10.03	---	3.82	---	4.07	---	2.07	5.51	---
MEAN	3.21	6.32	4.46	7.05	4.54	4.71	3.16	5.26	2.63	3.08	3.82	4.09
MAX	4.60	12.46	7.60	10.46	11.26	6.14	5.23	10.33	4.10	4.72	5.51	5.52
MIN	2.03	2.01	2.06	1.96	2.11	2.13	2.10	2.09	1.97	2.00	1.95	2.01

WTR YR 1978 MEAN 4.36 MAX 12.46 MIN 1.95

02339500 CHATTAHOOCHEE RIVER AT WEST POINT, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV 17...	1430	6680	60	7.0	19.0	15.0	7.6
JAN 17...	1330	18900	57	6.5	8.0	6.5	11.5
FEB 15...	1200	4600	49	6.9	8.0	8.0	10.6
MAR 22...	1300	7940	53	6.8	20.0	15.0	7.5
APR 18...	1045	996	59	6.8	18.0	17.5	7.2
JUN 21...	1215	2100	65	6.6	30.0	22.0	3.7
JUL 18...	1325	7440	69	6.8	33.5	25.0	4.4
AUG 23...	1115	800	73	6.6	34.0	27.5	7.0
SEP 20...	1205	780	69	6.9	32.5	27.5	6.2

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 17...	60	18	.8	90	.31	.09	.06	820	150	3.0
JAN 17...	57	21	.6	160	.54	.19	.09	930	110	3.0
FEB 15...	49	16	.8	90	.21	.03	.03	1000	135	<1.0
MAR 22...	53	11	.7	70	.23	.02	.03	880	120	<1.0
APR 18...	59	30	1.0	2300	.24	.05	.04	1650	170	4.0
JUN 21...	65	8	1.3	930	.37	.15	.03	700	540	4.0
JUL 18...	69	7	2.3	<30	<.02	.36	.07	--	--	4.0
AUG 23...	73	10	1.1	40	.21	.08	<.02	4300	580	<1.0
SEP 20...	69	5	1.4	40	.08	.08	.04	2700	400	1.0

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM	BED MAT. SIEVE DIAM. % FINER THAN .500 MM	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM
SEP 14...	0900	750	0	5	15	44	56	62

02339720 LONG CANE CREEK NEAR WEST POINT, GA.

LOCATION.--Lat 32°54'37", long 85°08'43", Troup County, Hydrologic Unit 03130002, at bridge on Webb Road 2.5 mi (4.0 km) northeast of West Point.
DRAINAGE AREA.--74.8 mi^2 (194 km^2), approximately.
PERIOD OF RECORD.--July 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 18...	1330	40	7.2	25.0	14.0	4.5
NOV 17...	1400	71	6.9	19.0	15.0	3.2
DEC 15...	1510	112	6.6	19.5	12.5	3.7
JAN 17...	1245	161	7.1	9.0	6.0	9.6
FEB 15...	1005	104	6.8	7.0	7.0	8.8
MAR 22...	1230	169	7.0	18.0	16.0	6.5
APR 18...	1130	110	6.8	18.0	18.0	3.6
MAY 24...	1045	110	7.2	26.0	22.0	2.8
JUN 21...	1135	42	6.8	33.5	23.5	2.5
JUL 18...	1300	38	7.1	38.0	26.0	4.2
AUG 23...	1040	31	7.0	31.0	26.0	2.1
SEP 20...	1125	19	7.0	34.5	24.0	2.8

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	201	22	3.6	930	--	.29	1.3	1.7	18
NOV 17...	175	11	13	430	--	.08	.81	.99	22
DEC 15...	137	28	6.6	1500	--	.10	.49	1.0	14
JAN 17...	108	95	3.6	1200	--	.31	.46	.53	12
FEB 15...	124	20	8.0	40	--	.15	.63	.70	13
MAR 22...	141	26	9.2	2300	--	.20	.45	1.1	10
APR 18...	118	32	8.4	4300	--	.28	.72	.95	11
MAY 24...	154	30	12	3900	--	.41	1.0	1.3	12
JUN 21...	230	14	6.4	1500	--	.43	1.8	1.5	14
JUL 18...	271	12	3.9	430	48	.18	1.3	2.0	13
AUG 23...	311	14	3.4	150	56	.22	3.3	2.3	12
SEP 20...	287	10	5.2	90	71	.02	3.0	3.5	15

02341500 CHATTAHOOCHEE RIVER AT COLUMBUS, GA.

LOCATION.--Lat 32°27'45", long 84°59'52", Muscogee County, Ga.-Russell County, Ala., Hydrologic Unit 03130003, on downstream side of center pier of Central of Georgia railway bridge at Columbus, 0.5 mi (0.8 km) downstream from Eagle and Phenix Dam, 1.2 mi (1.9 km) downstream from City Mills Dam, 2.6 mi (4.2 km) downstream from North Highlands Dam, 3.3 mi (5.3 km) downstream from Oliver Dam, 17.5 mi (28.2 km) downstream from Bartletts Ferry Dam, and at mile 159.9 (257.3 km).

DRAINAGE AREA.--4,670 mi^2 (12,100 km^2), approximately.

PERIOD OF RECORD.--August 1929 to current year. Records for December 1912, published in WSP 322, have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1082: 1943(M). See also period of record.

GAGE.--Water-stage recorder. Datum of gage is 183.14 ft (55.82 m) National Geodetic Vertical Datum of 1929. Dec. 1-31, 1912, nonrecording gage at site 800 ft (243 m) upstream at datum 2.0 ft (0.61 m) higher, and Aug. 23, 1929 to Sept. 30, 1975, recording gage at present site, at datum 2.0 ft (0.61 m) higher. Oct. 1, 1963 to Sept. 30, 1966, water-stage recorder at Walter F. George Reservoir, and since Oct. 1, 1966, water-stage recorder at Alabama State Docks used as auxiliary gage for this station.

REMARKS.--Records good except those below 1,500 cfs, which are poor. Flow regulated by Lake Sidney Lanier since January 1956, West Point Lake since October 1974, and by Lake Harding since 1939. (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400, 02339400, and 02341000.) Records of chemical analyses for the period February 1968 to May 1972 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--49 years, 6,771 ft^3/s (192 m^3/s), 19.69 in/yr (500.1 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 145,000 ft^3/s (4,110 m^3/s) Feb. 26, 1961; maximum gage height, 47.8 ft (14.57 m) Feb. 25, 1961; minimum discharge, 294 ft^3/s (8.33 m^3/s) Oct. 23, Nov. 14, 1931; minimum daily, 480 ft^3/s (13.6 m^3/s) Oct. 31, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known since at least 1827, 198,000 ft^3/s (5,610 m^3/s) Mar. 15, 1929, computation of flow at North Highlands Dam before redevelopment; maximum stage known, 53.2 ft (16.22 m) Mar. 16, 1929.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 75,000 ft^3/s (2,120 m^3/s) Jan. 26, gage height, 31.60 ft (9.632 m); minimum daily, 950 ft^3/s (26.9 m^3/s) July 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4060	6060	8770	6300	19000	6730	1900	8350	4030	1390	5970	5770
2	1080	5760	9660	7650	20000	7330	1470	14400	4480	950	7420	2470
3	1360	6060	7940	7500	19100	9540	4650	23100	4660	3230	7300	2800
4	2550	13600	4650	8500	19100	6080	6990	22600	1490	2880	7810	2100
5	3750	20200	6370	9040	18400	3130	7350	17300	4370	4810	5260	4350
6	4300	25600	9550	9510	19200	5900	5530	11300	4740	5830	3350	6530
7	2640	26700	8950	9170	18000	6620	6240	9470	5270	3990	6640	6640
8	2740	20800	7700	6950	18600	7050	1940	19000	7270	1690	5540	6940
9	1660	19300	8310	6630	20100	9720	1350	26400	11600	1300	7240	5840
10	3530	15400	3980	9060	21100	14800	5170	21900	6910	4000	8330	2950
11	3450	12700	1100	9270	15100	14000	3880	11800	1550	4490	8640	4550
12	4400	10400	6950	10600	8690	12100	4830	12100	4980	3440	6540	4780
13	3370	5940	5620	13500	9410	9970	6050	4120	4940	4290	5800	5140
14	4850	7390	5740	14500	6540	11900	6610	7770	4000	4770	5320	5800
15	1600	8360	6300	12000	6670	12900	2030	6350	3820	2920	5630	5600
16	1580	8880	7640	11300	6290	10800	1580	5210	4700	2190	5600	4000
17	3450	10200	4350	11000	4960	10200	4850	5140	2050	5540	5020	2300
18	4920	10400	2150	12000	5380	9730	5600	7340	1360	5500	5010	5080
19	4780	9670	3070	14000	6770	9420	7700	8020	3860	5010	3570	6280
20	4940	8660	4860	16000	3530	8410	7390	5870	4350	5420	1770	5650
21	4880	10100	5780	15000	4000	9650	5700	3320	4600	4560	3330	5480
22	1910	8310	4840	10200	3590	9770	3100	5620	3760	1820	4790	6680
23	2580	10300	5360	9400	4680	9710	990	5390	3900	2300	4720	5030
24	4220	8300	4570	10000	3700	9490	5350	6130	1610	6010	5640	3660
25	5830	4840	2450	40000	3870	4380	5620	5490	1590	5400	6130	5660
26	5840	5410	5900	55000	2740	3460	4150	7470	3200	5850	5360	6200
27	5600	2220	8000	40000	5200	6400	3050	4600	2610	6000	4130	6180
28	6650	6590	8720	20000	6410	6660	4950	1000	5840	6950	5100	6610
29	2930	8800	10000	19000	---	6010	1820	3490	4360	4000	5080	6650
30	2640	9320	9930	17500	---	4880	1940	4740	3960	4540	7960	4290
31	5080	---	9700	16000	---	5860	---	5270	---	7000	7290	---
TOTAL	113170	326270	198910	456580	300130	262600	129780	300060	125860	128070	177290	152010
MEAN	3651	10880	6416	14730	10720	8471	4326	9679	4195	4131	5719	5067
MAX	6650	26700	10000	55000	21100	14800	7700	26400	11600	7000	8640	6940
MIN	1080	2220	1100	6300	2740	3130	990	1000	1360	950	1770	2100

CAL YR 1977 TOTAL 2511030 MEAN 6880 MAX 45600 MIN 960 MEAN† 7072 CFSM† 1.51 IN† 20.50
WTR YR 1978 TOTAL 2670730 MEAN 7317 MAX 55000 MIN 950 MEAN† 7192 CFSM† 1.54 IN† 20.90

† Adjusted for change in contents in Lake Sidney Lanier, West Point Lake, and Lake Harding.

02341500 CHATTANOOCHEE RIVER AT COLUMBUS, GA.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.39	6.26	8.34	7.61	13.04	7.66	4.81	8.36	7.15	5.41	7.64	6.95
2	5.55	6.07	8.33	8.23	13.55	7.65	4.90	10.93	7.20	5.43	7.80	5.68
3	5.58	6.28	7.41	7.95	13.50	8.36	6.14	15.10	7.58	6.17	7.73	5.98
4	5.83	11.08	6.03	8.09	13.49	6.89	7.16	15.64	6.95	5.92	7.79	5.72
5	5.98	14.87	7.00	8.26	13.05	5.64	7.45	13.03	7.90	6.32	6.80	6.02
6	6.11	16.97	8.50	8.29	13.40	6.84	6.73	9.82	7.78	6.75	6.23	6.75
7	5.47	17.35	8.25	7.97	12.67	6.84	7.09	8.58	7.83	6.19	7.66	6.84
8	5.40	14.70	7.64	7.34	13.02	7.57	5.50	13.14	8.61	5.50	7.22	6.72
9	5.25	13.91	7.74	7.32	13.69	9.10	5.60	18.52	9.86	5.52	8.09	6.20
10	5.89	12.05	5.75	8.26	14.25	12.44	7.05	17.25	7.93	6.43	9.00	5.20
11	5.73	10.39	4.20	8.16	11.49	11.47	6.71	11.52	6.45	6.47	8.86	5.95
12	5.85	9.10	6.71	8.11	7.99	10.40	6.98	10.78	7.81	5.98	8.08	5.77
13	5.37	7.34	6.14	9.72	8.79	9.29	8.28	7.81	7.84	6.14	8.02	5.80
14	5.90	8.12	6.00	11.62	7.26	10.35	8.51	8.40	7.49	6.15	8.20	5.96
15	4.69	8.25	6.19	9.67	7.06	10.89	6.53	7.85	7.24	5.49	8.21	5.60
16	4.73	8.28	6.78	8.93	6.80	9.61	6.32	6.88	7.19	5.36	8.06	4.14
17	5.33	8.66	5.38	9.01	6.01	9.16	7.47	6.64	6.30	6.65	7.68	4.11
18	5.84	8.61	4.56	10.47	6.07	8.85	7.78	7.32	6.29	6.58	7.56	5.23
19	5.63	8.17	5.10	11.99	7.06	8.71	8.94	7.58	7.09	6.23	6.88	5.87
20	5.57	7.87	5.60	13.92	6.06	8.36	8.40	6.51	7.09	6.49	6.43	5.41
21	5.37	8.92	6.12	12.83	6.28	8.80	7.40	5.92	6.99	6.22	6.88	5.19
22	4.21	8.27	5.51	9.57	6.09	8.79	6.28	6.93	6.50	5.16	7.16	5.88
23	4.57	9.12	5.62	8.76	6.53	8.65	5.62	6.92	6.68	5.43	7.02	5.09
24	5.20	8.43	5.42	8.82	6.26	8.46	7.10	7.34	5.86	6.95	7.11	4.63
25	6.06	7.15	4.72	21.27	6.37	6.10	7.16	7.26	6.03	---	7.23	5.42
26	6.07	7.08	6.27	28.86	6.11	5.96	6.57	8.17	6.60	---	6.89	5.83
27	5.84	6.40	7.34	25.34	6.98	7.28	6.08	7.33	6.15	---	6.79	5.74
28	6.28	7.75	7.55	16.86	7.49	6.79	6.51	6.54	7.22	---	7.20	5.88
29	4.82	8.55	8.23	14.59	---	6.82	5.47	7.28	6.48	---	7.03	5.96
30	4.82	8.65	8.32	13.16	---	6.29	5.76	7.55	6.31	---	7.75	4.79
31	5.91	---	8.61	12.00	---	6.45	---	7.51	---	---	7.70	---
MEAN	5.52	9.49	6.62	11.39	9.30	8.27	6.74	9.37	7.15	---	7.51	5.68
MAX	6.39	17.35	8.61	28.86	14.25	12.44	8.94	18.52	9.86	---	9.00	6.95
MIN	4.21	6.07	4.20	7.32	6.01	5.64	4.81	5.92	5.86	---	6.23	4.11

02341800 UPATOI CREEK NEAR COLUMBUS, GA.

LOCATION.--Lat 32°24'48", long 84°49'12", Muscogee-Chattahoochee County line, Hydrologic Unit 03130003, at downstream side of pier near left end of bridge on Red Arrow Road at Fort Benning, 2 mi (3.2 km) downstream from Randall Creek, 2 mi (3.2 km) upstream from Ochillee Creek, 8 mi (12.9 km) southeast of Columbus, and 12 mi (19 km) upstream from mouth.
DRAINAGE AREA.--342 mi^2 (886 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1968 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 230 ft (70 m), from topographic map.
REMARKS.--Records good.
AVERAGE DISCHARGE.--10 years, 507 ft^3/s (14.4 m^3/s), 20.13 in/yr (511.3 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,200 ft^3/s (289 m^3/s) Apr. 15, 1975, gage height, 15.76 ft (4.804 m); minimum, 106 ft^3/s (3.00 m^3/s) Oct. 5, 6, 7, 1970.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft^3/s (70.8 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 4	1830	4370	124	10.37	3.161
Jan. 20	0745	3100	88.4	8.86	2.701
Jan. 25	1015	*7350	208	13.85	4.221
Mar. 9	2400	4870	138	10.87	3.313

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Apr. 13	1345	3770	107	9.71	2.960
Apr. 19	1330	2510	71.1	8.02	2.444
May 9	1730	6620	187	12.62	3.847

Minimum discharge, 136 ft^3/s (3.85 m^3/s) Oct. 6.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	165	216	755	1140	795	398	456	288	200	785	192
2	174	162	206	568	1080	546	374	702	238	196	488	184
3	198	165	204	430	1070	539	364	592	313	200	307	180
4	177	2200	204	370	883	539	346	1750	820	250	240	180
5	164	2330	208	346	752	409	331	1020	512	226	220	178
6	147	1170	248	349	677	348	319	632	398	202	230	178
7	146	704	262	370	624	396	307	523	346	190	300	174
8	152	480	234	405	597	1680	300	852	355	188	660	172
9	160	377	218	508	576	2550	290	4860	568	180	1250	171
10	182	334	272	416	548	3390	280	3450	480	224	1400	170
11	168	298	419	340	513	1630	302	1650	370	228	1040	166
12	156	272	343	316	483	1140	444	1030	325	202	1080	165
13	156	256	250	391	498	945	2410	900	384	190	955	166
14	150	248	238	520	508	1560	1910	755	328	184	696	168
15	150	244	244	415	443	1730	976	620	288	178	480	190
16	152	240	230	352	413	1100	629	540	272	182	374	204
17	152	240	218	498	400	830	514	536	254	180	328	210
18	150	242	214	720	442	704	810	556	242	172	316	180
19	152	234	275	1110	458	652	2020	476	234	170	364	172
20	148	226	402	2600	402	624	1370	430	228	166	346	166
21	148	222	319	1350	358	596	817	380	224	160	300	165
22	147	224	270	845	327	704	629	343	394	160	337	170
23	147	224	270	664	307	648	542	352	340	154	290	166
24	147	226	256	630	298	576	498	568	260	154	260	171
25	165	228	242	5260	290	536	463	540	232	152	230	200
26	307	228	232	3520	278	504	432	426	218	162	220	200
27	298	226	220	2220	274	476	407	361	208	202	212	182
28	218	226	214	1740	450	452	378	325	200	244	208	174
29	182	224	216	1560	---	440	349	316	194	216	200	172
30	172	222	524	1380	---	426	332	331	186	182	196	171
31	170	---	1300	1260	---	422	---	328	---	408	194	---
TOTAL	5315	12837	9168	32208	15089	27887	19541	26600	9699	6102	14506	5337
MEAN	171	428	296	1039	539	900	651	858	323	197	468	178
MAX	307	2330	1300	5260	1140	3390	2410	4860	820	408	1400	210
MIN	146	162	204	316	274	348	280	316	186	152	194	165
CFSM	.50	1.25	.87	3.04	1.58	2.63	1.90	2.51	.94	.58	1.37	.52
IN.	.58	1.40	1.00	3.50	1.64	3.03	2.13	2.89	1.05	.66	1.58	.58

CAL YR 1977 TOTAL 164044 MEAN 449 MAX 4870 MIN 142 CFSM 1.31 IN 17.84
WTR YR 1978 TOTAL 184289 MEAN 505 MAX 5260 MIN 146 CFSM 1.48 IN 20.05

02341800 UPATOI CREEK NEAR COLUMBUS, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV							
21...	1230	220	16.0	5.0	20	12	100
JAN							
25...	1315	7780	11.0	370	1320	27700	37
MAR							
31...	1000	416	16.0	7.0	28	31	100
MAY							
02...	1430	680	20.5	--	126	231	--
16...	1640	542	20.0	--	38	56	--
JUN							
22...	1915	460	27.5	--	82	102	--
AUG							
01...	0830	870	23.0	--	194	456	--
17...	1100	343	27.5	--	38	35	--
SEP							
30...	0830	171	22.0	--	28	13	--

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM	BED MAT. SIEVE DIAM. % FINER THAN .125 MM	BED MAT. SIEVE DIAM. % FINER THAN .250 MM
APR					
24...	1200	500	57	71	88

02344040 CHATTAHOOCHEE RIVER NEAR STEAM MILL, GA.

LOCATION.--Lat 30°58'39", long 85°00'19", Seminole County, Ga.-Jackson County, Fla., Hydrologic Unit 03130004, at Herman E. Talmadge Bridge on State Highway 91, 2 mi (3 km) northwest of Steam Mill.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Lake Sidney Lanier, West Point Lake, Lake Harding, Walter F. George Reservoir (See "Lakes and Reservoirs in Apalachicola River Basin", stations 02334400, 02339400, 02341000, 02343240.), and by George W. Andrews Reservoir.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 06...	1345	7.5	28.0	25.0	7.0
NOV 08...	1015	7.1	15.0	18.0	8.0
DEC 08...	1255	7.4	10.0	11.0	10.6
JAN 09...	1130	7.3	-2.0	8.0	10.4
FEB 14...	0845	7.0	5.0	7.0	11.2
MAR 09...	1000	6.8	10.0	12.0	9.3
APR 05...	1230	7.4	29.0	18.0	8.5
MAY 09...	0800	6.9	24.0	20.0	7.7
JUN 08...	1000	6.9	27.0	24.0	6.8
JUL 13...	1030	7.0	26.0	27.0	5.8
AUG 10...	1115	7.0	30.0	28.0	5.9
SEP 13...	0800	6.9	24.0	27.0	6.2

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)
OCT 06...	81	15	9	--	1.2	40
NOV 08...	71	15	13	--	.8	150
DEC 08...	71	50	18	--	1.0	230
JAN 09...	84	15	10	--	--	--
FEB 14...	60	60	38	--	1.3	180
MAR 09...	45	200	128	--	1.6	4300
APR 05...	86	50	16	--	1.0	40
MAY 09...	66	60	25	--	1.0	230
JUN 08...	71	120	36	--	--	--
JUL 13...	76	45	9	14	--	--
AUG 10...	71	40	18	8	.9	2100
SEP 13...	67	50	7	7	1.1	40

02344040 CHATTAHOOCHEE RIVER NEAR STEAM MILL, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
06...	--	9	.16	<.02	--	.02	4.0
NOV							
08...	--	23	.12	.02	--	.04	4.0
DEC							
08...	--	42	.44	.15	--	.05	7.0
JAN							
09...	--	20	.62	.17	--	.03	3.0
FEB							
14...	--	12	.40	.05	--	.07	2.0
MAR							
09...	--	113	.32	.17	--	.18	6.0
APR							
05...	--	15	.60	<.02	--	.03	3.5
MAY							
09...	--	6	.34	.06	--	.04	3.4
JUN							
08...	--	24	.42	<.02	--	.07	4.0
JUL							
13...	25	6	.17	.03	1.0	.03	3.5
AUG							
10...	23	14	.15	.08	.56	.03	2.0
SEP							
13...	25	<1	.13	.11	.39	.03	2.0

02344180 FLINT RIVER NEAR JONESBORO, GA.

LOCATION.--Lat 33°32'14", long 84°22'35", Clayton County, Hydrologic Unit 03130005, at bridge on State Highway 138, 0.8 mi (1.3 km) west of U.S. Highway 41, and 1.5 mi (2.4 km) northwest of Jonesboro.

DRAINAGE AREA.--39.1 mi^2 (62.9 km^2).

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT						
12...	0730	30	7.0	12.0	15.0	7.2
NOV						
07...	1000	144	6.6	18.0	13.0	6.4
DEC						
12...	1015	41	6.9	.0	4.5	10.3
JAN						
09...	0930	425	6.7	-12.0	6.5	8.2
FEB						
06...	0830	48	7.1	-6.5	3.0	8.5
MAR						
13...	0915	57	7.1	14.0	13.0	7.3
APR						
12...	0830	117	6.6	16.0	16.0	4.7
MAY						
15...	0915	44	6.9	18.0	17.0	6.2
JUN						
12...	0855	31	7.1	26.0	23.5	4.5
JUL						
12...	0840	18	7.2	26.0	25.5	3.9
AUG						
14...	1445	39	6.8	35.0	24.5	5.1
SEP						
11...	0905	18	6.9	23.5	23.5	4.3

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
12...	192	22	.9	430	--	10	146	2.4	.22	.66	6.0
NOV											
07...	79	72	2.4	9300	--	23	118	.20	.70	.40	7.0
DEC											
12...	153	20	2.0	5900	--	19	124	1.5	.68	.73	4.0
JAN											
09...	68	200	4.8	68000	--	138	232	.25	.25	.26	9.0
FEB											
06...	157	19	2.1	9300	--	8	117	.81	1.7	.43	3.0
MAR											
13...	133	23	3.4	930	--	15	110	.53	.91	.38	3.0
APR											
12...	114	58	7.4	43000	--	24	132	.43	.44	.30	12
MAY											
15...	137	32	2.2	1500	--	--	--	1.8	.20	.44	5.0
JUN											
12...	171	20	3.3	750	--	10	128	.98	1.0	.63	5.0
JUL											
12...	220	12	2.4	9300	41	7	152	3.5	.60	1.4	5.0
AUG											
14...	141	33	2.0	3900	32	21	132	1.8	.38	.38	5.0
SEP											
11...	225	17	3.2	23000	40	12	168	3.5	.16	1.7	5.0

02344190 FLINT RIVER NEAR FAYETTEVILLE, GA.

LOCATION.--Lat 33°29'13", long 84°23'44", Fayette-Clayton County line, Hydrologic Unit 03130005, at bridge on State Highway 54, 200 ft (60 m) east of Thomas Road, 0.2 mi (0.3 km) upstream from Camp Creek, and 4.4 mi (7.1 km) northeast of Fayetteville.

DRAINAGE AREA.--49 mi^2 (79 km^2).

PERIOD OF RECORD.--July 1975 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 12...	0815	54	6.9	12.0	15.0	3.2
NOV 07...	1055	263	6.7	18.5	13.0	5.0
DEC 12...	1100	54	7.0	3.5	5.0	8.8
JAN 09...	1030	352	6.7	-11.1	6.5	8.4
FEB 06...	0900	80	7.1	-6.5	3.0	9.8
MAR 13...	0945	110	6.8	16.0	13.0	4.4
APR 12...	0910	211	6.5	17.0	17.0	2.2
MAY 15...	0955	76	7.2	20.0	17.5	2.5
JUN 12...	0935	57	6.9	28.0	23.0	2.2
JUL 12...	0915	27	6.6	29.5	25.0	4.2
AUG 14...	1420	88	6.7	35.0	25.0	2.6
SEP 11...	1005	24	7.1	28.0	23.0	2.0

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 12...	205	18	2.4	930	--	7	148	1.7	2.9	1.4	7.0
NOV 07...	98	66	2.2	2300	--	37	137	.78	.20	.19	7.0
DEC 12...	220	17	5.2	750	--	18	146	1.2	4.1	2.0	8.5
JAN 09...	97	132	6.6	7500	--	88	194	.40	1.0	.81	10
FEB 06...	215	20	5.4	90	--	12	140	.72	4.4	1.6	5.0
MAR 13...	179	18	4.4	230	--	10	126	.40	3.2	1.2	4.0
APR 12...	157	46	8.8	23000	--	42	156	1.5	.62	1.2	10
MAY 15...	190	26	2.8	135	--	25	152	.60	3.6	1.2	6.0
JUN 12...	246	13	3.4	2400	--	1	156	.48	3.4	1.8	8.0
JUL 12...	333	9	3.7	40	85	6	184	1.2	1.0	3.8	8.0
AUG 14...	161	35	4.8	2300	39	16	150	.66	2.5	1.3	7.0
SEP 11...	393	58	5.8	110	101	42	324	.49	8.8	3.7	11

02344380 FLINT RIVER NEAR INMAN, GA.

LOCATION.--Lat 33°23'08", long 84°23'24", Fayette-Clayton County line, Hydrologic Unit 03130005, at bridge on Ackert Road, 0.6 mi (1.0 km) downstream from Gay Creek, and 1.4 mi (2.2 km) east of State Highway 92 at Inman.
DRAINAGE AREA.--158 mi^2 (254 km^2).
PERIOD OF RECORD.--July 1975 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 12...	0900	291	6.6	14.0	14.5	6.5
NOV 07...	1200	1080	6.3	23.5	14.0	6.5
DEC 12...	1200	134	6.9	4.0	5.5	8.3
JAN 09...	1130	358	6.4	-10.0	8.0	8.8
FEB 06...	0950	196	6.5	-5.5	3.5	11.0
MAR 13...	1030	298	6.8	15.0	13.0	8.4
APR 12...	1000	158	7.0	18.0	18.5	3.9
MAY 15...	1045	298	6.8	18.0	18.0	5.0
JUN 12...	1005	144	6.8	28.0	23.5	4.9
JUL 12...	1010	46	7.2	28.0	25.0	3.9
AUG 15...	0700	398	6.6	21.5	23.5	5.0
SEP 11...	1125	41	6.8	28.0	24.0	4.0

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 12...	81	37	.7	--	--	8	98	.38	<.04	.33	7.0
NOV 07...	53	80	1.8	330	--	22	124	.13	.02	.20	9.0
DEC 12...	133	17	2.2	40	--	16	108	1.2	.82	.58	5.5
JAN 09...	83	39	2.2	430	--	19	202	.60	.40	.31	5.0
FEB 06...	108	16	1.4	150	--	3	88	.95	.49	.40	3.0
MAR 13...	88	23	3.3	90	--	11	90	.66	.11	.29	1.0
APR 12...	151	17	4.4	430	--	6	108	.80	.37	.91	7.5
MAY 15...	98	30	1.6	70	--	11	104	.93	.03	.35	5.0
JUN 12...	118	15	2.1	160	--	2	88	1.2	.02	.50	4.0
JUL 12...	210	8	2.6	40	38	5	140	3.0	.45	1.5	4.0
AUG 15...	80	28	1.0	230	16	5	84	.33	.04	.32	7.0
SEP 11...	227	7	2.4	150	39	<1	144	6.1	.39	1.4	8.0

02344400 FLINT RIVER ABOVE GRIFFIN, GA.

LOCATION.--Lat 33°18'33", long 84°23'36", Spalding-Fayette County line, Hydrologic Unit 03130005, at bridge on State Highway 92, 3.4 mi (5.5 km) upstream from Central of Georgia Railroad bridge, and 8.5 mi (13.7 km) northwest of Griffin.
DRAINAGE AREA.--194 mi^2 (502 km^2).
PERIOD OF RECORD.--July 1975 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT						
12...	0930	780	6.5	14.0	14.0	7.5
NOV						
07...	1245	3900	6.3	22.0	14.0	5.8
DEC						
12...	1230	154	7.0	6.0	6.0	8.7
JAN						
09...	1200	450	6.4	-10.0	8.0	8.9
FEB						
06...	1020	262	6.9	-5.5	3.5	11.1
MAR						
13...	1130	504	6.8	15.0	13.0	9.8
APR						
12...	1100	140	7.0	19.0	18.5	4.2
MAY						
15...	1140	397	6.8	18.0	18.5	6.1
JUN						
12...	1055	202	6.7	29.0	23.5	5.7
JUL						
12...	1100	59	7.4	29.0	25.0	4.8
AUG						
15...	0800	566	6.5	26.0	23.5	5.2
SEP						
11...	1200	74	6.9	28.0	24.0	5.7

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, CONFIRMED (MPN)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY (MG/L AS CACO3)
OCT							
12...	75	46	21	1.6	23000	1500	--
NOV							
07...	43	87	24	2.2	15000	750	--
DEC							
12...	128	16	11	1.3	9300	90	--
JAN							
09...	83	28	21	1.6	7500	230	--
FEB							
06...	95	16	10	1.2	4300	70	--
MAR							
13...	70	31	15	2.0	9300	150	--
APR							
12...	142	11	17	1.7	1500	40	--
MAY							
15...	98	21	8	1.0	4300	150	--
JUN							
12...	99	16	--	1.4	--	<30	--
JUL							
12...	178	14	15	.8	--	150	30
AUG							
15...	83	28	16	1.0	9300	70	17
SEP							
11...	196	8	13	.4	--	90	33

02344400 FLINT RIVER ABOVE GRIFFIN, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 12...	15	98	.34	<.04	.62	.30	8.0
NOV 07...	28	110	.07	<.02	.54	.18	10
DEC 12...	17	312	1.2	.56	.56	.49	4.5
JAN 09...	8	88	.71	<.02	.38	.22	5.0
FEB 06...	4	82	.88	.45	.82	.29	3.0
MAR 13...	11	78	.50	<.02	.37	.19	4.0
APR 12...	5	96	.03	.32	.75	.60	5.5
MAY 15...	--	--	.95	.04	.80	.31	5.0
JUN 12...	3	88	.78	.03	--	.35	4.0
JUL 12...	8	120	.55	.14	2.8	1.1	4.0
AUG 15...	8	96	.30	.02	.25	.28	7.0
SEP 11...	2	124	6.2	.05	.44	.90	5.0

02344500 FLINT RIVER NEAR GRIFFIN, GA.

LOCATION.--Lat 33°14'39", long 84°25'45", Spalding County, Hydrologic Unit 03130005, at downstream side of pier of bridge on State Highway 16, 1.5 mi (2.4 km) downstream from Shoal Creek, 5.5 mi (8.8 km) upstream from Line Creek, 10 mi (16 km) west of Griffin, and at mile 304.4 (489.8 km).

DRAINAGE AREA.--272 mi^2 (704 km^2).

PERIOD OF RECORD.--March 1937 to current year. Monthly discharge only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 711.44 ft (216.85 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Aug. 25, 1938, nonrecording gage at present site at datum 3.00 ft (0.91 m) higher. Aug. 25, 1938 to May 5, 1941, nonrecording gage, May 6, 1941 to Aug. 20, 1959, water-stage recorder, and Aug. 21, 1959 to Sept. 13, 1960, nonrecording gage, all at present site and datum.

REMARKS.--Records good. Some diurnal fluctuation at low flow. City of Griffin diverted an average of about 8 ft^3/s (0.23 m^3/s) for municipal supply at pumping plant 6 mi (9.7 km) above station. An average of about 1 ft^3/s (0.03 m^3/s) of the diversion was discharged as sewage effluent into tributaries of Towaliga River, and an average of about 3 ft^3/s (0.08 m^3/s) was returned as sewage effluent to Flint River about 49 mi (79 km) downstream. Records of chemical analyses for the water years 1968-69, 1971-72, are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--41 years, 358 ft^3/s (10.1 m^3/s), 17.87 in/yr (453.9 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 13,200 ft^3/s (374 m^3/s) Nov. 27, 1948, gage height, 18.0 ft (5.49 m); minimum daily, 2.5 ft^3/s (0.071 m^3/s) Oct. 20, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 14 or 15, 1929, reached a stage of 17.9 ft (5.46 m), present datum, from floodmark located by local resident, discharge, 15,300 ft^3/s (433 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft /s)	Discharge (m /s)	Gage height (ft)	Gage height (m)
Nov. 6	2300	*5420	153	13.21	4.026
Jan. 26	1000	5080	144	13.04	3.975
May 1	2400	3350	94.9	11.86	3.615
May 10	1400	2920	82.7	11.47	3.496

Minimum daily discharge, 51 ft^3/s (1.44 m^3/s) July 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	101	191	368	629	466	347	230	1660	298	58	88	76
2	91	172	325	695	452	346	227	2840	207	67	86	72
3	93	168	290	477	427	365	223	1840	185	67	94	78
4	83	359	256	319	391	332	215	1680	178	66	154	81
5	75	2740	234	271	363	305	210	1570	170	67	457	100
6	67	4850	262	280	339	262	205	1000	157	59	283	118
7	71	4430	240	350	313	255	201	725	157	55	267	85
8	74	2220	239	403	297	290	196	794	197	53	226	79
9	91	1170	225	542	293	415	192	1340	298	51	213	75
10	133	679	225	550	292	1250	187	2730	487	77	322	72
11	250	420	223	743	291	1410	182	2130	559	90	403	68
12	531	317	226	655	284	1300	215	1110	291	70	467	65
13	406	269	214	424	284	820	389	600	206	57	452	63
14	183	247	220	459	288	598	547	426	177	51	392	64
15	131	231	252	500	286	570	501	390	166	55	465	74
16	116	223	262	467	278	527	417	399	153	77	407	76
17	108	224	279	467	264	497	259	304	141	115	233	81
18	101	235	318	607	262	375	252	265	132	134	210	78
19	99	235	321	776	267	325	363	252	125	111	194	71
20	96	230	315	1670	265	301	530	237	116	85	161	66
21	93	216	274	1670	263	284	847	228	108	74	136	62
22	90	202	232	1490	251	311	511	217	104	64	115	59
23	88	206	218	945	244	307	273	203	102	58	105	57
24	87	212	211	595	241	311	236	197	106	53	100	56
25	129	223	474	1570	239	281	237	192	103	179	92	56
26	367	227	463	4730	238	275	321	185	92	212	87	58
27	564	205	372	4370	234	270	390	181	84	168	93	64
28	1170	192	308	2620	257	257	466	175	81	214	95	64
29	981	193	246	1180	---	248	312	205	71	164	102	60
30	449	234	332	717	---	240	234	244	63	147	92	57
31	228	---	609	547	---	233	---	332	---	112	81	---
TOTAL	7146	21720	9033	31718	8369	13907	9568	24651	5314	2910	6672	2135
MEAN	231	724	291	1023	299	449	319	795	177	93.9	215	71.2
MAX	1170	4850	609	4730	466	1410	847	2840	559	214	467	118
MIN	67	168	211	271	234	233	182	175	63	51	81	56
CFSM	.85	2.66	1.07	3.76	1.10	1.65	1.17	2.92	.65	.35	.79	.26
IN.	.98	2.97	1.24	4.34	1.14	1.90	1.31	3.37	.73	.40	.91	.29

CAL YR 1977 TOTAL 130912 MEAN 359 MAX 4850 MIN 46 CFSM 1.32 IN 17.90
WTR YR 1978 TOTAL 143143 MEAN 392 MAX 4850 MIN 51 CFSM 1.44 IN 19.58

02344700 LINE CREEK NEAR SENOIA, GA.

LOCATION.--Lat 33°19'10", long 84°31'25", Coweta-Fayette County line, Hydrologic Unit 03130005, on downstream side of bridge on State Highway 85, 2.2 mi (3.5 km) northeast of Senoia, 4.1 mi (6.6 km) upstream from Whitewater Creek, and 11.2 mi (18.0 km) upstream from mouth.

DRAINAGE AREA.--101 mi^2 (262 km^2), approximately.

PERIOD OF RECORD.--September 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 740 ft (226 m), from topographic map.

REMARKS.--Records fair except those for periods of no gage-height record, Oct. 1-31 and Aug. 21 to Sept. 29, which are poor.

AVERAGE DISCHARGE.--14 years, 140 ft^3/s (3.96 m^3/s), 18.82 in/yr (478.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,580 ft^3/s (271 m^3/s) Nov. 5, 1977, gage height, 14.88 ft (4.535 m); minimum daily, 4.0 ft^3/s (0.113 m^3/s) Sept. 23, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s (28.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 5	1600	*9580	271	14.88	4.535	May 1	2400	2930	83.0	11.20	3.414
Jan. 26	0900	3150	89.2	11.30	3.444						

Minimum daily discharge, 4.0 ft^3/s (0.113 m^3/s) Sept. 23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	28	46	128	286	183	134	75	1010	53	18	16	10
2	25	44	102	172	182	120	72	2040	49	16	14	9.0
3	23	45	88	133	173	102	70	684	103	15	15	8.5
4	21	119	84	113	155	109	68	423	96	14	32	10
5	19	5490	87	102	142	97	65	298	68	13	41	13
6	17	2860	95	118	135	88	65	228	53	12	56	16
7	19	784	100	198	123	87	61	189	54	12	52	12
8	23	461	80	192	116	106	60	294	262	11	54	10
9	30	280	77	469	118	148	57	595	275	10	58	8.0
10	45	185	95	733	120	401	54	773	163	11	179	7.0
11	70	140	86	350	116	549	57	327	96	9.5	153	6.5
12	130	116	76	202	110	323	146	190	74	9.0	70	6.0
13	100	102	74	214	112	220	202	174	66	9.2	87	5.5
14	60	93	84	272	121	195	226	199	58	9.7	68	5.0
15	40	87	123	213	111	231	140	165	49	14	47	6.0
16	30	84	117	158	103	182	97	107	43	17	37	7.0
17	28	87	98	189	101	142	77	82	39	17	40	8.0
18	27	93	124	327	100	123	88	75	35	16	35	6.5
19	26	85	137	324	107	113	270	73	34	14	32	5.5
20	25	75	110	478	102	108	388	76	32	12	27	5.0
21	24	71	94	624	94	104	160	71	37	9.9	24	4.5
22	23	71	83	377	91	122	107	67	50	8.8	24	4.2
23	22	77	75	232	138	126	93	62	40	7.9	20	4.0
24	22	86	74	194	147	107	84	66	33	7.9	18	4.1
25	50	82	116	724	121	96	111	79	29	11	15	4.1
26	100	75	139	2780	73	95	233	64	27	7.9	13	4.2
27	200	66	106	1280	64	92	259	56	24	10	11	4.3
28	160	64	86	502	78	86	136	57	22	24	13	4.5
29	90	114	77	310	---	83	103	68	21	14	16	4.7
30	65	140	115	236	---	81	86	72	19	12	13	5.2
31	50	---	295	200	---	78	---	60	---	13	11	---
TOTAL	1592	12122	3225	12702	3336	4648	3710	8724	2004	385.8	1291	208.3
MEAN	51.4	404	104	410	119	150	124	281	66.8	12.4	41.6	6.94
MAX	200	5490	295	2780	183	549	388	2040	275	24	179	16
MIN	17	44	74	102	64	78	54	56	19	7.9	11	4.0
CFSM	.51	4.00	1.03	4.06	1.18	1.49	1.23	2.78	.66	.12	.41	.07
IN.	.59	4.46	1.19	4.68	1.23	1.71	1.37	3.21	.74	.14	.48	.08

CAL YR 1977 TOTAL 50994.9 MEAN 140 MAX 5490 MIN 6.6 CFSM 1.39 IN 18.78

WTR YR 1978 TOTAL 53948.1 MEAN 148 MAX 5490 MIN 4.0 CFSM 1.47 IN 19.87

APALACHICOLA RIVER BASIN

02346180 FLINT RIVER NEAR THOMASTON, GA.

LOCATION.--Lat 32°50'20", long 84°25'27", Upson-Talbot County line, Hydrologic Unit 03130005, at downstream end of left bank pier of bridge on State Highway 36, 2.5 mi (4.0 km) upstream from Lazar Creek, and 7.8 mi (12.6 km) west of Thomaston.

DRAINAGE AREA.--1,220 mi^2 (3,160 km^2), approximately.

PERIOD OF RECORD.--May 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 490.00 ft (149.35 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).

REMARKS.--Records fair.

AVERAGE DISCHARGE.--12 years, 1,792 ft^3/s (50.7 m^3/s), 19.95 in/yr (506.7 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 34,400 ft^3/s (974 m^3/s) Mar. 3, 1971, gage height, 18.4 ft (5.61 m), from floodmarks; minimum daily, 110 ft^3/s (3.12 m^3/s) Oct. 2, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Nov. 28, 1948 reached a stage of 19.3 ft (5.88 m), from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 19,200 ft^3/s (543 m^3/s) Jan. 26, gage height, 15.28 ft (4.657 m); minimum daily, 186 ft^3/s (5.27 m^3/s) Sept. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	542	794	1070	2890	2140	1730	1200	1890	1320	351	640	267
2	588	695	1220	2530	2410	1700	1190	5580	1120	335	500	255
3	567	667	1080	2080	2370	1790	1160	8900	1060	316	400	242
4	495	1550	977	1630	2040	1710	1140	8500	1100	299	350	236
5	463	6600	940	1360	1800	1520	1110	6620	1060	292	340	241
6	436	12400	1080	1300	1630	1380	1090	4580	1020	326	500	239
7	409	13700	1090	1460	1510	1310	1070	3030	878	294	810	257
8	401	13200	956	1670	1420	1590	1050	3660	925	334	790	245
9	529	8220	912	2000	1380	2270	1030	4870	1590	330	900	217
10	539	3610	915	2350	1380	6480	1000	8450	1890	550	1200	208
11	633	1890	911	2880	1350	6550	984	7520	1680	400	1400	197
12	851	1400	876	2620	1310	5100	1070	5540	1410	300	1700	192
13	990	1180	839	2040	1300	4180	2010	3270	1130	330	1700	189
14	778	1060	873	1900	1330	3250	2470	2080	975	279	1400	186
15	572	974	1040	1890	1290	3100	2120	1750	850	294	1100	204
16	509	916	1110	1780	1250	2640	1760	1600	777	305	950	232
17	481	899	1080	1870	1210	2240	1450	1460	714	327	720	264
18	438	901	1190	2450	1250	1950	1490	1300	665	358	550	261
19	400	917	1400	2940	1290	1710	2230	1230	621	347	520	245
20	388	894	1310	5410	1250	1600	2140	1170	580	288	470	229
21	372	859	1180	5650	1190	1520	2200	1120	549	254	400	214
22	367	831	1060	4800	1140	1600	2100	1080	543	224	390	200
23	368	823	945	3950	1100	1660	1540	1030	523	207	380	197
24	376	838	893	2770	1110	1570	1260	1020	540	200	342	216
25	506	857	1440	8420	1110	1490	1190	1010	478	200	328	206
26	1600	847	2120	18200	1140	1430	1360	988	432	300	316	206
27	2040	815	1770	17500	1050	1410	1620	1030	391	450	309	208
28	1820	768	1410	14000	1190	1350	1690	1030	356	600	313	218
29	1930	743	1200	10300	---	1300	1500	1090	331	680	312	221
30	1730	798	1420	5020	---	1260	1230	1580	326	650	305	215
31	1110	---	2970	2630	---	1230	---	1470	---	550	292	---
TOTAL	23228	80646	37277	138290	39940	69620	44454	95448	25834	10970	20627	6707
MEAN	749	2688	1202	4461	1426	2246	1482	3079	861	354	665	224
MAX	2040	13700	2970	18200	2410	6550	2470	8900	1890	680	1700	267
MIN	367	667	839	1300	1050	1230	984	988	326	200	292	186
CFSM	.61	2.20	.99	3.66	1.17	1.84	1.22	2.52	.71	.29	.55	.18
IN.	.71	2.46	1.14	4.22	1.22	2.12	1.36	2.91	.79	.33	.63	.20

CAL YR 1977 TOTAL 568042 MEAN 1556 MAX 13700 MIN 222 CFSM 1.28 IN 17.32
WTR YR 1978 TOTAL 593041 MEAN 1625 MAX 18200 MIN 186 CFSM 1.33 IN 18.08

02347500 FLINT RIVER NEAR CULLODEN, GA.

LOCATION.--Lat 32°43'17", long 84°13'57", Taylor-Upson County line, Hydrologic Unit 03130005, on left bank underneath bridge on U.S. Highway 19, 4 mi (6.4 km) upstream from Auchumpkee Creek, 5 mi (8.0 km) downstream from Swift Creek, 13 mi (20.9 km) southwest of Culloden, and at mile 238.4 (383.6 km).

DRAINAGE AREA.--1,850 mi^2 (4,790 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1911 to May 1923, July 1928 to December 1931, March 1937 to current year.

REVISED RECORDS.--WSP 697: 1911-23. WSP 1002: 1943. WSP 1504: 1913, 1916-17, 1918(M), 1919-22, 1923(M), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 334.54 ft (101.97 m) National Geodetic Vertical Datum of 1929. July 1, 1911, to Oct. 11, 1918, nonrecording gage and Oct. 12, 1918, to May 31, 1923, water-stage recorder, at site 2.5 mi (4.0 km) downstream at different datum. July 21, 1928, to Dec. 31, 1931, and Mar. 18, 1937, to May 3, 1939, nonrecording gage at present site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--55 years (1911-22, 1928-31, 1937-78), 2,425 ft^3/s (68.7 m^3/s), 17.80 in/yr (452.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 92,000 ft^3/s (2,610 m^3/s) Mar. 15, 1929, gage height, 38.4 ft (11.70 m), from graph based on gage readings; minimum observed, 92 ft^3/s (2.61 m^3/s) Oct. 4, 6, 7, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1912, that of Mar. 15, 1929.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 11,000 ft^3/s (312 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 8	0100	15500	439	16.25	4.953
Jan. 26	1200	*38800	1100	27.25	8.306
Mar. 10	1700	13400	379	14.89	4.538
May 10	2100	11800	334	13.72	4.182

Minimum discharge, 276 ft^3/s (7.82 m^3/s) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	571	1020	1320	4800	3790	2710	1620	1940	1560	491	896	415
2	610	873	1650	3870	4120	2650	1570	5910	1380	491	643	385
3	661	820	1540	3180	4260	2890	1530	9200	1250	465	508	359
4	588	1260	1370	2520	3570	3020	1480	10800	1520	486	470	344
5	531	9210	1320	2050	3120	2490	1450	8670	1390	503	590	339
6	494	14700	1480	1880	2770	2160	1410	6680	1210	465	902	349
7	467	14900	1570	1980	2540	2110	1380	4400	1380	444	1070	349
8	452	14800	1380	2200	2390	3560	1340	5020	1120	424	1010	359
9	575	10900	1280	2850	2310	5080	1300	7390	1530	410	1570	339
10	747	5810	1270	3110	2260	12900	1270	10600	2200	877	2170	306
11	659	3090	1270	3540	2200	11200	1240	10100	2010	649	2480	289
12	761	2180	1240	3580	2120	7980	1310	7520	1740	614	2640	277
13	911	1800	1190	2960	2030	6580	3290	5140	1420	549	2760	281
14	956	1600	1250	2740	2080	5970	4550	3220	1230	475	2160	285
15	741	1480	1560	2660	2020	6010	3280	2520	1060	449	1510	311
16	611	1400	1620	2490	1950	4650	2620	2210	965	460	1280	334
17	552	1350	1540	2570	1900	3770	2140	2040	896	480	1120	380
18	538	1330	1550	3780	1890	3150	2080	1830	835	503	908	395
19	498	1320	1810	4490	2010	2720	4490	1680	793	508	769	369
20	476	1290	1800	9110	1940	2480	4000	1570	764	475	746	349
21	467	1250	1640	8690	1830	2330	3180	1460	734	434	697	325
22	460	1210	1480	6900	1740	2420	3000	1420	709	390	643	306
23	454	1190	1340	5710	1670	2460	2420	1350	691	349	596	311
24	446	1200	1250	4320	1640	2290	1900	1320	691	320	543	429
25	531	1210	1880	16800	1630	2140	1720	1310	655	302	508	415
26	1460	1200	3020	36400	1640	2040	1710	1230	673	311	475	364
27	2550	1160	2660	30100	1570	1960	2000	1200	631	625	460	354
28	2140	1100	2080	18900	1640	1870	2140	1260	602	902	455	339
29	2060	1060	1770	13600	---	1790	2020	1210	549	959	460	349
30	2040	1080	1950	8320	---	1720	1730	1630	514	835	444	344
31	1470	---	5000	4770	---	1670	---	1760	---	758	439	---
TOTAL	26477	102793	53080	220870	64630	116770	65170	123590	32702	16403	31922	10350
MEAN	854	3426	1712	7125	2308	3767	2172	3987	1090	529	1030	345
MAX	2550	14900	5000	36400	4260	12900	4550	10800	2200	959	2760	429
MIN	446	820	1190	1880	1570	1670	1240	1200	514	302	439	277
CFSM	.46	1.85	.93	3.85	1.25	2.04	1.17	2.16	.59	.29	.56	.19
IN.	.53	2.07	1.07	4.44	1.30	2.35	1.31	2.49	.66	.33	.64	.21

CAL YR 1977 TOTAL 794414 MEAN 2176 MAX 20100 MIN 286 CFSM 1.18 IN 15.97
WTR YR 1978 TOTAL 864757 MEAN 2369 MAX 36400 MIN 277 CFSM 1.28 IN 17.39

02347500 FLINT RIVER NEAR CULLODEN, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT						
12...	1130	770	7.4	18.0	17.5	9.5
NOV						
07...	1445	14900	6.5	24.5	14.5	9.4
DEC						
12...	1440	1230	7.3	10.5	7.0	10.7
JAN						
09...	1400	2910	7.0	-8.0	9.5	9.8
FEB						
06...	1300	2760	6.9	.0	5.0	12.0
MAR						
13...	1330	6530	6.9	23.0	12.5	10.0
APR						
12...	1230	1320	7.4	25.0	21.0	7.7
MAY						
15...	1300	2490	7.0	20.5	20.5	8.2
JUN						
12...	1230	1740	7.0	32.0	23.0	7.6
JUL						
12...	1310	632	6.8	28.5	27.5	6.2
AUG						
15...	0935	1550	6.9	29.5	26.0	7.2
SEP						
11...	1400	284	7.2	31.0	28.0	9.6

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT									
12...	69	11	.7	230	--	.16	<.04	.05	4.0
NOV									
07...	37	84	.6	4300	--	.06	<.02	.06	11
DEC									
12...	61	15	.4	230	--	.24	.05	.06	4.0
JAN									
09...	51	22	.5	430	--	.24	<.02	.05	5.0
FEB									
06...	42	26	.9	230	--	.25	.02	.05	3.0
MAR									
13...	40	45	1.0	230	--	.22	.03	.08	2.0
APR									
12...	67	10	.8	230	--	.14	.02	.02	5.0
MAY									
15...	47	24	.6	<30	--	.19	<.02	.06	5.0
JUN									
12...	59	20	.4	430	--	.36	<.02	.06	3.0
JUL									
12...	64	25	1.3	930	21	.20	.05	.03	2.0
AUG									
15...	53	32	.8	680	13	.20	<.02	.08	6.0
SEP									
11...	96	6	.5	40	37	.08	.03	.05	4.0

02349500 FLINT RIVER AT MONTEZUMA, GA.

LOCATION.--Lat 32°17'53", long 84°02'38", Macon County, Hydrologic Unit 03130006, near left bank on downstream end of pier of bridge on State Highways 26 and 49, 1,000 ft (305 m) upstream from Central of Georgia Railway bridge, 1,400 ft (427 m) upstream from Seaboard Coast Line Railroad (formerly Atlanta, Birmingham and Coast) bridge, just upstream from Buck Creek, 1 mi (1.6 km) west of Montezuma, and at mile 180.6 (290.6 km).

DRAINAGE AREA.--2,900 mi^2 (7,500 km^2), approximately; includes that of Buck Creek.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1904 to December 1912 (published as "near Montezuma"), July 1930 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 822: Drainage area. WSP 852: 1936(M). WSP 1504: 1905-9, 1911-12, drainage area (at site used prior to 1912).

GAGE.--Water-stage recorder. Datum of gage is 255.83 ft (77.98 m) National Geodetic Vertical Datum of 1929. January 1905 to December 1909, and January 1911 to December 1912, nonrecording gage at site 1.5 mi (2.4 km) upstream at same datum. July 1, 1930, to June 30, 1933, and Oct. 1, 1934, to Dec. 12, 1941, nonrecording gage, and Dec. 13, 1941, to Oct. 25, 1955, water-stage recorder at site 500 ft (152 m) downstream at same datum.

REMARKS.--Records good. Records include flow of Buck Creek. Prior to Dec. 31, 1963, when operation was discontinued, moderate diurnal fluctuation at low flow caused by powerplant above station.

AVERAGE DISCHARGE.--56 years, 3,615 ft^3/s (102 m^3/s), 16.93 in/yr (430.0 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,900 ft^3/s (1,950 m^3/s) Nov. 30, 1948, gage height, 25.2 ft (7.68 m); minimum daily, 585 ft^3/s (16.6 m^3/s) Oct. 26, 1941, Sept. 23, 1956.

FLOODS OUTSIDE PERIOD OF RECORD.--Flood on Mar. 2, 1897, reached a stage of 26.0 ft (7.92 m) at former site, from National Weather Service, discharge, 97,000 ft^3/s (2,750 m^3/s), from rating curve extended above 10,000 ft^3/s (283 m^3/s on basis of peak flows passing upstream and downstream stations.

Flood on Mar. 17, 1929, reached a stage of 27.4 ft (8.35 m), at present site, from National Weather Service, discharge, 92,300 ft^3/s (2,610 m^3/s), from rating curve extended above 65,000 ft^3/s (1,840 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 38,500 ft^3/s (1,090 m^3/s) Jan. 29, gage height, 21.56 ft (6.571 m); minimum daily discharge, 876 ft^3/s (24.8 m^3/s) Sept. 13.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1260	2380	1990	5030	14700	3260	3010	2830	2710	1140	2070	1100
2	1280	1990	2150	6140	11400	4080	2930	4000	2510	1140	2220	1070
3	1300	1780	2390	5860	8300	4360	2850	4900	2360	1130	1980	1050
4	1340	1760	2420	4770	6970	4370	2780	7040	2390	1100	1800	1030
5	1320	2200	2490	3860	6450	4520	2700	8370	2570	1090	1780	1000
6	1250	4660	2750	3310	5600	4180	2640	8330	2550	1100	1650	983
7	1200	6600	2710	3110	4910	3730	2580	10800	2300	1080	1690	959
8	1160	7840	2650	3150	4480	4340	2530	10600	2310	1050	2000	947
9	1170	10200	2440	3350	4220	5830	2480	9200	2210	1030	2100	934
10	1220	13300	2230	3700	4060	7320	2410	8440	2360	1180	3070	926
11	1400	14300	2150	3970	3930	8330	2370	8630	3320	1270	4770	907
12	1430	12300	2120	4160	3810	9870	2380	9460	3220	1540	5310	888
13	1380	7430	2090	4430	3700	12900	3120	10600	2730	1340	4950	876
14	1480	3410	2110	4270	3710	12900	5030	11100	2390	1300	4500	877
15	1590	2790	2340	3990	3720	11400	6500	9460	2130	1280	3890	927
16	1530	2540	2590	3800	3640	9860	6420	5480	1940	1260	3020	1000
17	1370	2420	2660	3610	3570	8990	4960	3980	1740	1250	2450	999
18	1280	2350	2610	3700	3610	7750	3880	3800	1630	1220	2200	979
19	1230	2330	2610	4810	3640	5870	4060	3480	1540	1200	2010	982
20	1200	2250	2690	6280	3640	4650	5440	3130	1470	1200	1830	971
21	1170	2200	2690	7250	3520	4250	6300	2860	1410	1160	1720	956
22	1140	2150	2540	8130	3300	4170	5520	2620	1370	1110	1680	1020
23	1120	2130	2370	9080	3150	4150	4590	2580	1340	1070	1610	974
24	1120	2110	2230	9680	3050	4170	3940	2460	1320	1030	1530	1020
25	1120	2100	2310	10800	3000	3990	3340	2300	1280	1010	1400	1060
26	1210	2080	2790	13400	2970	3780	3010	2300	1250	1000	1310	1090
27	1650	2040	3780	16900	2940	3600	2900	2310	1220	1040	1240	1070
28	2740	2000	3810	33800	2990	3460	3000	2250	1220	1110	1200	1010
29	2930	1960	3220	35900	---	3330	3100	2200	1190	1450	1170	984
30	2700	1930	2980	26600	---	3210	3020	2200	1170	1640	1140	962
31	2670	---	3410	19300	---	3110	---	2420	---	1690	1120	---
TOTAL	45960	125530	80320	276140	132980	179700	109790	170130	59150	37210	70410	29551
MEAN	1483	4184	2591	8908	4749	5797	3660	5488	1972	1200	2271	985
MAX	2930	14300	3810	35900	14700	12900	6500	11100	3320	1690	5310	1100
MIN	1120	1760	1990	3110	2940	3110	2370	2200	1170	1000	1120	876
CFSM	.51	1.44	.89	3.07	1.64	2.00	1.26	1.89	.68	.41	.78	.34
IN.	.59	1.61	1.03	3.54	1.71	2.31	1.41	2.18	.76	.48	.90	.38

CAL YR 1977 TOTAL 1224318 MEAN 3354 MAX 19900 MIN 865 CFSM 1.16 IN 15.71
WTR YR 1978 TOTAL 1316871 MEAN 3608 MAX 35900 MIN 876 CFSM 1.24 IN 16.89

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.02	4.05	3.37	7.57	15.14	5.37	5.02	4.76	4.58	1.98	3.51	1.70
2	2.06	3.37	3.65	8.74	13.22	6.47	4.91	5.15	4.27	1.99	3.78	1.63
3	2.11	2.98	4.07	8.46	10.77	6.83	4.79	7.45	4.01	1.96	3.34	1.57
4	2.19	2.95	4.12	7.29	9.57	6.84	4.68	9.63	4.06	1.90	3.02	1.52
5	2.15	3.72	4.23	6.20	9.05	7.02	4.57	10.84	4.36	1.88	2.99	1.47
6	1.99	7.12	4.65	5.44	8.20	6.60	4.48	11.80	4.33	1.90	2.75	1.43
7	1.89	9.20	4.58	5.16	7.46	6.04	4.39	12.73	3.92	1.86	2.81	1.38
8	1.82	10.35	4.50	5.21	6.96	6.80	4.31	12.58	3.93	1.76	3.37	1.35
9	1.84	12.32	4.14	5.50	6.65	8.43	4.21	11.58	3.76	1.72	3.56	1.33
10	1.94	14.30	3.80	5.99	6.45	9.88	4.10	10.90	4.01	1.97	5.10	1.31
11	2.30	14.78	3.66	6.34	6.29	10.77	4.03	11.07	5.45	2.14	7.30	1.27
12	2.34	13.69	3.60	6.58	6.14	12.07	4.05	11.80	5.32	2.55	7.90	1.22
13	2.26	9.88	3.54	6.91	6.00	14.05	5.16	12.60	4.72	2.18	7.50	1.19
14	2.44	5.58	3.59	6.71	6.01	14.06	7.57	12.95	4.16	2.09	7.00	1.20
15	2.64	4.70	3.98	6.36	6.02	13.10	9.10	11.80	3.72	2.07	6.24	1.31
16	2.53	4.32	4.40	6.12	5.91	12.09	9.02	8.08	3.37	2.03	5.03	1.47
17	2.23	4.11	4.51	5.87	5.82	11.39	7.50	6.35	3.09	1.99	4.16	1.46
18	2.05	4.00	4.44	5.99	5.87	10.28	6.22	6.13	2.91	1.94	3.75	1.42
19	1.96	3.96	4.44	7.33	5.92	8.47	6.45	5.68	2.75	1.89	3.40	1.42
20	1.90	3.83	4.56	8.88	5.91	7.16	8.04	5.18	2.62	1.90	3.07	1.40
21	1.83	3.74	4.56	9.82	5.74	6.69	8.90	4.80	2.51	1.82	2.87	1.37
22	1.78	3.66	4.31	10.62	5.43	6.59	8.12	4.45	2.44	1.72	2.80	1.51
23	1.75	3.62	4.03	11.47	5.22	6.56	7.10	4.38	2.39	1.63	2.67	1.41
24	1.73	3.58	3.79	11.97	5.07	6.59	6.30	4.18	2.35	1.53	2.52	1.50
25	1.75	3.55	3.94	12.80	5.00	6.36	5.48	3.92	2.27	1.48	2.30	1.60
26	1.92	3.52	4.69	14.52	4.96	6.09	5.02	3.92	2.20	1.46	2.12	1.67
27	2.74	3.46	6.09	16.10	4.92	5.85	4.85	3.93	2.14	1.55	1.98	1.63
28	4.61	3.38	6.14	20.64	4.98	5.66	5.00	3.83	2.15	1.72	1.89	1.48
29	4.90	3.31	5.32	21.14	---	5.46	5.14	3.75	2.08	2.38	1.84	1.43
30	4.57	3.26	4.97	19.21	---	5.31	5.03	3.75	2.04	2.72	1.78	1.38
31	4.52	---	5.58	17.03	---	5.16	---	4.12	---	2.86	1.75	---
MEAN	2.41	5.81	4.36	9.61	6.95	8.07	5.78	7.55	3.40	1.95	3.68	1.43
MAX	4.90	14.78	6.14	21.14	15.14	14.06	9.10	12.95	5.45	2.86	7.90	1.70
MIN	1.73	2.95	3.37	5.16	4.92	5.16	4.03	3.75	2.04	1.46	1.75	1.19

WTR YR 1978 MEAN 5.08 MAX 21.14 MIN 1.19

02349500 FLINT RIVER AT MONTEZUMA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to July 1974, August 1976 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 03...	1025	1300	7.0	21.0	21.0	8.4
NOV 08...	1630	8070	6.4	24.0	16.5	6.4
DEC 05...	0950	2510	7.1	13.0	11.0	9.2
FEB 14...	1545	3720	6.7	9.0	7.5	10.0
MAR 09...	1510	5910	6.9	8.0	10.0	9.7
MAY 09...	1520	8970	6.5	19.5	19.0	7.7
JUN 08...	1415	2360	6.3	24.0	24.0	6.8
JUL 10...	0945	1190	5.9	26.0	22.0	7.4
AUG 10...	1545	3410	6.1	25.0	25.0	6.4
SEP 13...	1600	880	6.9	32.0	24.5	7.6

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)
OCT 03...	54	35	11	12	.5	40
NOV 08...	40	180	78	28	1.7	390
DEC 05...	57	60	21	13	.8	1500
FEB 14...	45	45	17	7	.4	40
MAR 09...	45	90	35	15	1.3	230
MAY 09...	40	60	30	16	.8	230
JUN 08...	27	150	16	--	--	--
JUL 10...	43	180	102	--	--	15000
AUG 10...	28	120	22	--	.8	1615
SEP 13...	41	80	8	--	.8	510

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALKA- LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
03...	--	14	.14	<.02	.21	.02	4.0
NOV							
08...	--	66	.07	.05	.73	.13	10
DEC							
05...	--	17	.19	.09	.45	.05	3.0
FEB							
14...	--	12	.30	.37	.37	.10	1.0
MAR							
09...	--	53	.19	<.02	.38	.07	4.0
MAY							
09...	--	20	.16	.04	1.7	.07	4.1
JUN							
08...	--	2	.27	.04	--	.04	4.0
JUL							
10...	6	134	.70	.12	--	.21	13
AUG							
10...	5	19	.21	.02	--	.05	3.0
SEP							
13...	11	1	.45	.07	--	.20	2.0

02349900 TURKEY CREEK AT BYROMVILLE, GA.

LOCATION.--Lat 32°11'44", long 83°54'03", Dooly County, Hydrologic Unit 03130006, on downstream side of bridge on State Highway 90, 0.5 mi (0.8 km) southwest of Byromville, and 11 mi (17.7 km) upstream from mouth.

DRAINAGE AREA.--45 mi^2 (117 km^2), approximately.

PERIOD OF RECORD.--Water years 1951-58 (annual maximum), June 1958 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 286 ft (87.2 m), from topographic map. Prior to June 19, 1958, crest-stage gage at site 50 ft (15 m) upstream at same datum.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--20 years (1958-78), 50.5 ft^3/s (1.43 m^3/s), 15.24 in/yr (387.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,940 ft^3/s (112 m^3/s) Mar. 31, 1970, gage height, 13.30 ft (4.054 m); minimum discharge, 0.1 ft^3/s (0.003 m^3/s) July 28, 1968.

EXTREMES FOR CURRENT YEAR.--Peak discharge above base of 400 ft^3/s (11.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 20	1300	420	11.9	9.60	2.926
Jan. 25	2300	*2260	64.0	12.13	3.697

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
May 10	0400	705	20.0	10.25	3.124

Minimum daily discharge, 4.5 ft^3/s (0.127 m^3/s) July 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	7.3	16	91	133	109	38	28	17	6.3	12	5.3
2	6.6	7.4	9.7	60	190	91	36	36	16	7.1	9.6	4.8
3	6.3	7.8	8.5	44	223	71	34	34	16	7.0	10	5.7
4	6.1	20	8.5	36	156	68	32	156	19	5.8	11	7.3
5	6.2	21	36	31	130	58	30	126	18	4.9	12	6.4
6	6.2	9.7	42	34	116	54	29	59	16	5.0	14	6.8
7	6.4	8.8	22	44	105	53	27	43	17	5.1	14	6.7
8	6.5	8.4	14	44	97	110	26	52	16	4.5	11	6.4
9	9.7	8.1	12	69	95	173	22	344	15	4.7	11	6.2
10	9.2	7.8	11	52	91	287	22	526	14	7.5	31	6.0
11	6.7	7.6	11	38	83	205	21	206	12	13	31	6.1
12	6.5	7.6	10	34	76	147	21	117	9.2	9.3	33	6.1
13	6.3	7.6	9.7	40	77	124	129	86	10	7.7	76	6.2
14	6.1	7.6	16	52	85	159	208	67	10	7.1	31	6.2
15	6.2	7.6	20	40	69	263	83	50	9.7	18	17	6.3
16	6.1	7.7	14	32	66	159	53	42	7.5	58	13	6.4
17	6.0	8.0	13	35	71	122	42	49	7.5	28	11	6.4
18	6.0	7.8	34	43	126	99	47	88	8.1	17	10	6.4
19	6.1	7.6	19	110	155	86	134	57	7.2	12	9.4	6.2
20	6.0	7.6	33	373	103	80	118	41	6.2	11	8.7	6.6
21	6.1	7.6	89	269	84	106	62	34	6.1	9.3	8.1	10
22	6.1	7.6	40	151	73	85	47	37	7.1	8.7	6.8	7.6
23	6.2	7.8	22	118	65	74	39	31	8.3	8.3	6.6	6.9
24	6.3	7.9	18	104	63	66	36	27	7.4	8.0	6.2	6.6
25	6.8	8.2	70	1070	61	62	35	26	7.2	7.8	5.6	6.5
26	8.0	7.6	90	1490	58	59	48	23	7.9	6.6	6.2	6.3
27	7.2	7.5	39	524	54	56	40	20	6.1	9.6	6.9	6.1
28	7.1	7.5	26	299	65	51	33	19	5.6	11	7.0	6.0
29	7.1	7.6	21	223	---	46	30	19	6.1	11	5.7	5.9
30	7.2	9.5	46	177	---	43	26	18	7.6	9.2	5.0	6.1
31	7.3	---	109	151	---	40	---	18	---	11	5.8	---
TOTAL	207.3	261.8	929.4	5878	2770	3206	1548	2479	320.8	339.5	445.6	192.5
MEAN	6.69	8.73	30.0	190	98.9	103	51.6	80.0	10.7	11.0	14.4	6.42
MAX	9.7	21	109	1490	223	287	208	526	19	58	76	10
MIN	6.0	7.3	8.5	31	54	40	21	18	5.6	4.5	5.0	4.8
CFSM	.15	.19	.67	4.22	2.20	2.29	1.15	1.78	.24	.24	.32	.14
IN.	.17	.22	.77	4.86	2.29	2.65	1.28	2.05	.27	.28	.37	.16

CAL YR 1977 TOTAL 18340.4 MEAN 50.2 MAX 964 MIN 4.0 CFSM 1.12 IN 15.16
WTR YR 1978 TOTAL 18577.9 MEAN 50.9 MAX 1490 MIN 4.5 CFSM 1.13 IN 15.36

02350600 KINCHAFOONEE CREEK AT PRESTON, GA.

LOCATION.--Lat 32°03'09", long 84°32'54", Webster County, Hydrologic Unit 03130007, near right bank on downstream side of bridge on State Highway 41, 1 mi (1.6 km) southwest of Preston, and 1 mi (1.6 km) upstream from Harrel Mill Creek.
DRAINAGE AREA.--197 mi^2 (510 km^2).

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1969 to September 1970, November 1971 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
JUL					
05...	1535	185	6.5	25.5	6.4
SEP					
20...	1300	72	6.5	23.0	7.8

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
JUL												
05...	30	140	10	0	3.2	.6	1.3	.8	15	0	12	2.8
SEP												
20...	31	150	10	4	2.9	.7	1.9	.8	7	0	6	1.4

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)
JUL											
05...	2.6	.0	6.4	42	.38	1.7	.00	.00	--	.10	.04
SEP											
20...	3.3	.0	.8	40	.16	.71	.01	.03	.13	.13	.02

DATE	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)
JUL											
05...	.59	.63	.09	.54	--	--	.05	.01	.01	.00	.00
SEP											
20...	.26	.28	.00	--	.41	1.8	.02	.01	.00	.00	.00

DATE	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)
JUL											
05...	40	2	0	2	340	110	<.5	0	20	5.1	1.8
SEP											
20...	30	0	1	3	620	130	<.5	0	20	7.4	7.1

02352500 FLINT RIVER AT ALBANY, GA.

LOCATION.--Lat 31°35'39", long 84°04'39", Dougherty County, Hydrologic Unit 03130008, on right bank at downstream side of Georgia Northern Railway bridge in Albany, and at mile 103.4 (166.4 km).
DRAINAGE AREA.--5,310 mi^2 (13,800 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1897 to September 1901 (gage heights only), October 1901 to June 1921, September 1929 to current year. Monthly discharges only for some periods, published in WSP 1304. Gage-height records collected at site 1 mi (1.6 km) downstream since 1893 are contained in reports of National Weather Service.
REVISED RECORDS.--WSP 1504: 1902, 1913(M), 1916-17, 1919-21, 1930(m), 1934(m), drainage area.
GAGE.--Water-stage recorder. Datum of gage is 150.03 ft (45.73 m) National Geodetic Vertical Datum of 1929. Prior to Jan. 1, 1902, nonrecording gage at site 1 mi (1.6 km) downstream at datum 1.3 ft (0.40 m) lower. Jan. 1, 1902, to June 30, 1921, nonrecording gage at site 1 mi (1.6 km) downstream at datum 2.0 ft (0.61 m) lower.
REMARKS.--Records good. Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft (9.25 hm^3); and at Warwick Reservoir since 1930, capacity about 35,000 acre-ft (43.2 hm^3). Normal operation of powerplants does not materially affect figures of monthly runoff.
AVERAGE DISCHARGE.--68 years (1901-20, 1929-78), 6,346 ft^3/s (180 m^3/s), 16.23 in/yr (412.2 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 77,000 ft^3/s (2,180 m^3/s) Mar. 7, 1966, gage height, 34.72 ft (10.583 m); minimum daily, 327 ft^3/s (9.26 m^3/s) Aug. 24, 1930.
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since at least 1893, 37.84 ft (11.534 m) Jan. 21, 1925, from floodmark, present site and datum, discharge, 92,000 ft^3/s (2,610 m^3/s) from rating curve extended above 75,000 ft^3/s (2,120 m^3/s).
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 44,500 ft^3/s (1,260 m^3/s) Jan. 29, gage height, 27.18 ft (8.284 m); minimum daily, 1,070 ft^3/s (30.3 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1510	2490	3870	5530	43100	6260	5350	5210	4050	1720	3660	1630
2	2140	3820	1940	7510	37500	6760	4870	9280	3290	1710	3580	2440
3	2120	3750	2410	9300	27700	7060	5960	6150	3290	1930	4780	1450
4	2370	3920	2720	8590	19000	7020	4950	11200	6420	2980	3540	1260
5	2480	4550	4760	8010	16200	6100	4460	11100	5190	1800	3980	1750
6	2450	5960	5220	6670	14900	5320	4840	11300	6260	2000	3300	1560
7	2140	6270	5510	6050	11600	6640	4590	15500	5090	1990	3410	1650
8	1830	7250	4810	5170	11100	7780	4910	15400	5060	1920	4020	1730
9	1840	8740	5170	6140	10600	8910	5770	16400	5160	1750	3610	1490
10	2260	10800	3930	7190	7820	14200	2740	19900	3780	1710	3780	1460
11	1710	12500	3110	5740	8040	15000	4820	23500	4860	2280	5460	1240
12	1910	16500	4110	5840	7250	21000	4460	17700	4070	2350	7700	1420
13	2230	16300	4560	6370	7800	19000	5870	14700	5660	2240	7660	1640
14	2450	14000	4000	7560	7830	17000	8800	16900	4170	2200	7830	1960
15	1810	6880	4370	7530	7910	19500	11400	15800	4350	2110	8510	1460
16	1820	6630	6870	5990	6890	21400	11500	15100	3990	2840	7420	1330
17	2510	5020	2580	8460	6560	21000	11700	11100	3060	4340	5040	1430
18	2890	4240	2220	6260	6450	15100	11100	7350	2940	3840	4440	1630
19	2720	1720	4490	6920	8090	17100	10600	7180	2450	3490	2890	2100
20	2750	2110	5230	9540	8130	6420	11200	6700	3610	3020	3010	1910
21	2690	3720	5590	11500	8830	9830	11400	5410	2680	2980	3970	1940
22	2220	4270	5970	15800	7940	9270	11300	6200	2640	2630	3240	2230
23	1980	4090	5350	13400	6560	9030	11200	5960	2630	2420	2560	1560
24	1940	1890	4380	13400	6280	6820	7060	3980	2480	1650	2380	1240
25	2810	2550	2910	19400	5320	7920	6510	4280	1630	1830	1820	1300
26	3270	3230	3740	26400	4660	6900	6310	4170	2700	1680	2340	1230
27	2690	3780	5940	36600	4080	8070	6530	2830	3410	1510	2960	1100
28	2100	2110	5440	42900	5790	6910	6120	2740	3470	1500	3710	1230
29	1960	4180	5680	43900	---	5430	3820	2610	3370	1670	1950	1290
30	3970	4640	6890	42100	---	5120	3040	4500	1760	1510	1980	1070
31	2670	---	5200	43100	---	6970	---	4420	---	1740	1840	---
TOTAL	72240	177910	138970	448870	323930	330840	213180	304570	113520	69340	126370	46730
MEAN	2330	5930	4483	14480	11570	10670	7106	9825	3784	2237	4076	1558
MAX	3970	16500	6890	43900	43100	21400	11700	23500	6420	4340	8510	2440
MIN	1510	1720	1940	5170	4080	5120	2740	2610	1630	1500	1820	1070
CFSM	.44	1.12	.84	2.73	2.18	2.01	1.34	1.85	.71	.42	.77	.29
IN.	.51	1.25	.97	3.14	2.27	2.32	1.49	2.13	.80	.49	.89	.33

CAL YR 1977 TOTAL 2171176 MEAN 5948 MAX 27900 MIN 960 CFSM 1.12 IN 15.21
WTR YR 1978 TOTAL 2366470 MEAN 6483 MAX 43900 MIN 1070 CFSM 1.22 IN 16.58

02352500 FLINT RIVER AT ALBANY, GA.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.92	3.94	4.80	5.92	26.63	6.32	5.78	5.68	5.03	3.20	4.80	3.08
2	3.66	4.93	3.41	6.99	24.40	6.58	5.58	7.91	4.58	3.20	4.65	3.85
3	3.62	4.90	3.90	7.93	20.04	6.75	6.15	6.13	4.58	3.41	5.43	2.87
4	3.88	5.03	4.15	7.56	14.30	6.69	5.56	8.93	6.40	4.33	4.65	2.64
5	3.97	5.40	5.48	7.25	12.21	6.24	5.32	8.87	5.70	3.30	4.86	3.19
6	3.90	6.15	5.75	6.54	11.29	5.80	5.55	9.01	6.32	3.50	4.40	2.99
7	3.65	6.31	5.92	6.19	9.19	6.49	5.40	11.75	5.65	3.51	4.50	3.11
8	3.32	6.85	5.53	5.74	8.88	7.13	5.60	11.68	5.67	3.43	4.78	3.21
9	3.34	7.63	5.73	6.26	8.60	7.71	6.03	12.46	5.73	3.25	4.62	2.93
10	3.76	8.73	4.96	6.82	7.14	10.81	4.08	14.98	4.90	3.21	4.69	2.91
11	3.18	9.77	4.51	6.04	7.25	11.37	5.52	17.66	5.51	3.78	5.68	2.61
12	3.40	12.46	5.11	6.10	6.86	15.87	5.28	13.38	5.09	3.86	7.10	2.81
13	3.75	12.28	5.32	6.39	7.14	14.34	6.10	11.21	5.99	3.76	7.08	3.09
14	3.86	10.78	5.00	7.02	7.14	12.76	7.65	12.73	5.04	3.72	7.16	3.44
15	3.27	6.64	5.22	7.00	7.19	14.71	9.08	12.01	5.20	3.62	7.51	2.87
16	3.29	6.52	6.64	6.17	6.65	16.10	9.14	11.46	4.95	4.24	6.96	2.71
17	3.93	5.58	3.88	7.49	6.47	15.82	9.24	8.91	4.35	5.23	5.66	2.85
18	4.28	5.14	3.71	6.32	6.41	11.41	8.93	6.89	4.30	4.88	5.23	3.10
19	4.11	3.13	5.33	6.67	7.29	12.88	8.63	6.79	3.93	4.62	4.27	3.58
20	4.10	3.59	5.77	8.05	7.31	6.39	8.97	6.54	4.85	4.29	4.38	3.41
21	4.09	4.85	5.97	9.17	7.67	8.20	9.09	5.88	4.06	4.35	4.94	3.44
22	3.63	5.08	6.16	11.92	7.21	7.89	9.00	6.29	4.04	3.90	4.42	3.74
23	3.48	5.01	5.83	10.36	6.47	7.77	8.95	6.17	4.12	3.92	4.04	3.01
24	3.44	3.35	5.12	10.28	6.34	6.61	6.49	5.02	3.98	3.11	3.88	2.61
25	4.24	4.05	4.35	14.69	5.80	7.21	6.45	5.20	3.02	3.32	3.29	2.69
26	4.51	4.56	4.92	19.37	5.44	6.67	6.31	5.12	4.13	3.17	3.82	2.58
27	4.09	4.94	6.14	24.05	5.05	7.28	6.46	4.17	4.63	2.96	4.28	2.41
28	3.62	3.57	5.87	26.56	6.06	6.67	6.23	4.21	4.67	2.95	4.69	2.60
29	3.46	5.13	6.01	26.95	---	5.87	4.82	3.84	4.63	3.15	3.45	2.68
30	5.08	5.35	6.65	26.24	---	5.69	4.44	5.27	3.21	2.96	3.46	2.36
31	4.13	---	5.75	26.64	---	6.70	---	5.24	---	3.21	3.32	---
MEAN	3.77	6.06	5.25	10.99	9.37	8.99	6.73	8.43	4.81	3.66	4.90	2.98
MAX	5.08	12.46	6.65	26.95	26.63	16.10	9.24	17.66	6.40	5.23	7.51	3.85
MIN	2.92	3.13	3.41	5.74	5.05	5.69	4.08	3.84	3.02	2.95	3.29	2.36

WTR YR 1978 MEAN 6.32 MAX 26.95 MIN 2.36

02352500 FLINT RIVER AT ALBANY, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—February 1968 to current year.

REMARKS.—Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
NOV 08...	1415	7500	7.0	22.0	19.0	8.6
FEB 14...	1340	5880	7.1	9.0	7.5	10.2
MAY 09...	1300	18700	6.9	19.0	20.0	7.9
SEP 13...	1330	1180	7.1	32.0	27.5	7.6

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 08...	64	40	10	1.2	430	--	.16	.14	.19	5.0
FEB 14...	69	60	18	.9	23000	--	.58	.26	.23	2.0
MAY 09...	62	60	22	1.1	43000	--	.36	.21	.20	5.7
SEP 13...	66	60	7	1.7	750000	27	.20	.11	.08	2.0

02352790 FLINT RIVER NEAR PUTNEY, GA.

LOCATION.--Lat 31°26'39", long 84°08'16", Dougherty County, Hydrologic Unit 03130008, at Plant Mitchell intake, and 2.5 mi (4.0 km) south of Putney.

DRAINAGE AREA.--5,340 mi^2 (13,800 km^2), approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Flow regulated by powerplants at Flint River and Warwick Reservoirs. (See remarks for station 02352500.) Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 06...	1500	2900	7.5	27.0	24.0	6.8
NOV 08...	1315	9520	7.2	21.0	18.5	8.2
DEC 08...	1400	3900	7.4	12.0	12.0	9.1
JAN 09...	0930	4900	7.1	-3.0	8.5	10.6
FEB 14...	1230	7920	7.1	8.5	9.0	10.0
MAR 09...	1230	8310	7.2	9.0	11.0	9.5
APR 05...	1430	4400	7.4	30.0	21.5	7.9
MAY 09...	1200	13300	7.0	22.0	20.5	9.9
JUN 08...	1200	6500	7.0	28.5	25.0	6.9
JUL 13...	1430	2700	7.5	29.0	29.5	5.5
AUG 10...	1300	4200	7.0	26.0	28.0	6.3
SEP 13...	1145	2250	7.2	33.0	28.0	5.8

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)
OCT 06...	90	30	7	--	.3	2300
NOV 08...	71	30	9	--	.5	7500
DEC 08...	75	60	13	--	1.0	390
JAN 09...	78	25	16	--	--	--
FEB 14...	77	60	19	--	.4	930
MAR 09...	77	45	15	--	.6	2300
APR 05...	95	20	10	--	.7	4300
MAY 09...	67	40	16	--	.7	9300
JUN 08...	77	75	18	--	--	--
JUL 13...	108	35	5	11	--	--
AUG 10...	76	60	12	11	.4	430000
SEP 13...	86	40	6	7	.6	9300

02352790 FLINT RIVER NEAR PUTNEY, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 06...	--	4	.28	.19	--	.12	3.0
NOV 08...	--	4	.18	.10	--	.05	3.0
DEC 08...	--	21	.25	.15	--	.07	5.0
JAN 09...	--	--	.30	.13	--	.07	4.0
FEB 14...	--	1	.58	.10	--	.06	2.0
MAR 09...	--	11	.41	.20	--	.07	1.0
APR 05...	--	6	.46	.18	--	.08	4.8
MAY 09...	--	<1	.32	.10	--	.06	3.4
JUN 08...	--	2	.38	.07	--	.06	3.0
JUL 13...	42	3	.50	.10	.60	.07	3.5
AUG 10...	28	10	.30	.02	--	.05	<1.0
SEP 13...	32	<1	.30	.20	.46	.20	2.0

02353000 FLINT RIVER AT NEWTON, GA.

LOCATION.--Lat 31°18'34", long 84°20'06", Baker-Mitchell County line, Hydrologic Unit 03130008, on downstream side of pier of bridge on State Highway 37 at Newton, 1 mi (1.6 km) downstream from Coolewahee Creek, and at mile 69.5 (111.8 km).

DRAINAGE AREA.--5,740 mi^2 (14,900 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1938 to September 1950 (monthly discharge only for some periods, published in WSP 1304), October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 110.20 ft (33.59 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Nov. 12, 1956, nonrecording gage at same site and datum.

REMARKS.--Records good. Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft (9.25 hm^3); and at Warwick Reservoir since 1930, capacity, about 35,000 acre-ft (43.2 hm^3). Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--34 years, 7,134 ft^3/s (202 m^3/s), 16.88 in/yr (428.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 66,000 ft^3/s (1,870 m^3/s) Mar. 9, 1966, gage height, 34.9 ft (10.64 m); minimum, 790 ft^3/s (22.4 m^3/s) Oct. 20, Nov. 10, 1940.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, 41.3 ft (12.59 m) Jan. 21, 1925, from floodmarks; discharge, 94,000 ft^3/s (2,660 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 41,000 ft^3/s (1,160 m^3/s) Feb. 2, gage height, 26.62 ft (8.114 m); minimum, 1,530 ft^3/s (43.3 m^3/s) Sept. 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2310	3090	4310	5130	40400	6630	7110	4010	5000	2590	2780	2330
2	2170	3360	3030	5960	40700	7000	6000	7490	4070	2700	4370	2650
3	2710	3950	2850	7630	38000	7180	5740	7470	4360	2610	4470	2420
4	2630	4050	2970	8030	31100	7750	6620	8610	5070	3390	4250	1910
5	2740	4230	3500	7610	21500	6900	5410	10500	6210	3290	4080	1880
6	3110	4320	5340	7300	17400	5950	5430	10600	6200	2710	3990	2350
7	2650	4330	5100	6050	14000	6980	5540	11800	6330	2920	3570	2020
8	2540	6140	5110	5860	12200	7410	5320	14300	5730	2830	4150	2210
9	2270	6840	5060	5270	11700	8740	6160	13400	5470	2690	3470	2060
10	2300	8500	5060	6930	10700	11500	4460	16700	5630	2550	4190	1970
11	2360	9250	3730	6180	9060	13600	4990	19200	5430	2790	4430	1930
12	2220	10200	3680	5980	8420	16400	5280	20600	5040	3040	5960	1710
13	2330	12000	4790	6150	8350	19700	5360	15000	5770	3050	7010	2040
14	2510	13600	4440	6480	8920	17400	7470	15200	6000	3000	7120	2230
15	2680	9600	4700	7300	8600	18800	9460	16200	5030	2940	7640	2250
16	2150	7080	5260	6370	8130	20500	10300	14100	5320	3320	7280	1920
17	2750	6440	5190	7030	7660	21200	10500	12800	4680	3810	6570	1730
18	3560	5350	2720	7230	7610	19100	10400	9610	4140	4740	5370	1950
19	3090	3820	3360	6300	7620	16200	10100	7950	3550	4410	4150	2300
20	3210	2550	5390	7850	8550	12300	10200	7990	4190	3790	3510	2380
21	3230	3360	5280	9030	8720	9830	10500	6830	4440	3660	4080	2360
22	3050	4360	5660	11600	8550	10200	10500	6420	3730	3710	4320	2480
23	2340	4860	5420	13300	7990	9710	10500	6970	3510	2890	3250	2410
24	2270	3420	5510	11600	7010	8910	9370	5630	3700	2900	3210	1900
25	2600	2680	3680	13900	6940	8080	7080	5150	3150	2350	2780	1680
26	3460	3280	3610	20000	5960	8290	6840	5140	3320	2520	2690	1800
27	3480	4130	5000	24300	4860	8250	6850	4630	3930	2330	3040	1610
28	2710	3540	5450	29300	6080	8030	6760	3690	4290	2140	4200	1570
29	2520	3170	5410	35200	---	6970	6010	3340	4330	2200	3040	1670
30	2530	4740	6150	39100	---	6360	4200	4530	3600	2260	2510	1690
31	3700	---	6070	40000	---	6700	---	5190	---	2170	2670	---
TOTAL	84180	166240	142830	379970	376730	342570	220460	301050	141220	92300	134150	61410
MEAN	2715	5541	4607	12260	13450	11050	7349	9711	4707	2977	4327	2047
MAX	3700	13600	6150	40000	40700	21200	10500	20600	6330	4740	7640	2650
MIN	2150	2550	2720	5130	4860	5950	4200	3340	3150	2140	2510	1570
CFSM	.47	.97	.80	2.14	2.34	1.93	1.28	1.69	.82	.52	.75	.36
IN.	.55	1.08	.93	2.46	2.44	2.22	1.43	1.95	.92	.60	.87	.40

CAL YR 1977 TOTAL 2234880 MEAN 6123 MAX 25300 MIN 1530 CFSM 1.07 IN 14.48
WTR YR 1978 TOTAL 2443110 MEAN 6693 MAX 40700 MIN 1570 CFSM 1.17 IN 15.83

02353000 FLINT RIVER AT NEWTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV 08...	1200	6100	7.3	18.5	18.0	8.1
FEB 14...	1100	9390	7.3	7.0	8.5	9.4
MAY 09...	1100	12300	7.1	23.0	21.0	7.5
SEP 13...	1015	2090	7.4	27.0	25.5	6.4

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 08...	74	20	12	.6	4300	--	.24	.06	.08	3.0
FEB 14...	83	55	19	.4	930	--	.61	.06	.07	3.0
MAY 09...	69	50	15	.8	2300	--	.35	.07	.07	3.7
SEP 13...	125	30	5	.3	4300	58	.74	.06	.19	<1.0

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.

LOCATION.--Lat 31°22'58", long 84°32'32", Baker County, Hydrologic Unit 03130009, on downstream end of left bank pier of bridge on State Highway 216 at Milford, 2.2 mi (3.5 km) upstream from Alligator Creek, and 5.5 mi (8.8 km) upstream from Chickasawhatchee Creek.

DRAINAGE AREA.--620 mi^2 (1,610 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1905 to December 1907, October 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 150.3 ft (45.81 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Aug. 29, 1905, to Dec. 31, 1907, nonrecording gage at several sites within 450 ft (137 m) of present site at various datums. Oct. 1, 1939, to Nov. 10, 1941, nonrecording gage at site 100 ft (30 m) downstream at present datum.

REMARKS.--Records good except for those of no gage-height record, July 11 to Aug. 13, which are poor. Moderate diurnal fluctuation at low flow.

AVERAGE DISCHARGE.--41 years, 807 ft^3/s (22.9 m^3/s), 17.68 in/yr (449.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 11,900 ft^3/s (337 m^3/s) Jan. 27, 1978, gage height, 15.08 ft (4.596 m); minimum, 116 ft^3/s (3.29 m^3/s) Sept. 16, 17, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1916 reached a stage of 17.2 ft (5.24 m), from information by local resident, discharge, 15,500 ft^3/s (439 m^3/s).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft^3/s (85.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Jan. 27	1300	*11900	337	15.08	4.596
Mar. 10	1200	7590	215	11.49	3.502
Mar. 16	2000	3810	108	7.20	2.195

Minimum discharge, 216 ft^3/s (6.12 m^3/s) Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	525	413	511	700	2040	912	898	710	529	454	290	280
2	524	402	559	762	1990	1050	862	823	472	582	280	269
3	575	396	595	772	2160	1260	836	989	466	684	270	272
4	647	410	584	754	2300	1450	813	1530	630	722	260	262
5	536	533	574	712	2300	1490	796	2180	702	563	260	257
6	426	808	810	622	2110	1360	772	2800	766	537	260	251
7	387	1620	1450	597	1770	1110	749	2440	700	547	270	241
8	370	1730	1890	612	1470	1630	726	1900	614	495	300	240
9	365	1480	1380	721	1320	3520	707	1440	615	441	350	230
10	398	1090	948	809	1250	7260	694	1810	648	405	430	220
11	465	795	755	848	1200	6400	672	2710	664	390	600	230
12	468	653	629	798	1140	4700	659	2360	612	360	1200	251
13	432	589	593	732	1110	3250	811	1800	575	340	1900	261
14	405	523	597	718	1090	2760	1560	1340	561	320	1690	254
15	378	497	680	737	1050	2960	2560	1040	578	300	1100	252
16	363	491	756	752	1020	3540	2480	875	585	330	800	259
17	349	524	818	720	981	3320	1970	791	510	400	678	303
18	344	592	784	707	1030	2600	1390	751	454	450	536	348
19	342	662	746	784	1150	2070	1300	747	434	410	524	314
20	341	686	739	1170	1210	1670	1650	809	410	380	528	279
21	340	621	785	1550	1220	1470	2240	863	379	350	640	261
22	334	556	840	1860	1170	1360	2090	780	365	330	614	251
23	336	530	909	1800	1070	1380	1540	654	372	310	551	248
24	340	544	875	1470	940	1480	1090	599	385	300	542	246
25	345	550	789	2050	871	1490	884	641	392	290	488	281
26	395	553	733	6230	846	1340	843	656	361	300	441	306
27	486	532	765	11600	828	1190	835	566	349	310	406	291
28	556	512	751	10100	827	1060	804	514	343	330	370	276
29	544	492	681	6300	---	983	754	491	318	320	337	269
30	480	486	651	3330	---	942	716	489	343	310	319	271
31	433	---	653	2440	---	912	---	494	---	300	300	---
TOTAL	13229	20270	24830	63757	37463	67919	34701	36592	15132	12560	17534	7973
MEAN	427	676	801	2057	1338	2191	1157	1180	504	405	566	266
MAX	647	1730	1890	11600	2300	7260	2560	2800	766	722	1900	348
MIN	334	396	511	597	827	912	659	489	318	290	260	220
CFSM	.69	1.09	1.29	3.32	2.16	3.53	1.87	1.90	.81	.65	.91	.43
IN.	.79	1.22	1.49	3.83	2.25	4.08	2.08	2.20	.91	.75	1.05	.48

CAL YR 1977 TOTAL 267174 MEAN 732 MAX 3840 MIN 198 CFSM 1.18 IN 16.03
WTR YR 1978 TOTAL 351960 MEAN 964 MAX 11600 MIN 220 CFSM 1.56 IN 21.12

02353500 ICHAWAYNOCHAWAY CREEK AT MILFORD, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—October 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
JUL 05...	1230	560	7.3	26.0	6.8
SEP 20...	1500	272	7.4	26.5	7.6

DATE	SPFCIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE (MG/L AS HCO3)	CARBONATE (MG/L AS CO3)	ALKALINITY (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)
JUL 05...	67	85	27	2	9.3	1.0	2.4	1.1	31	0	25	2.7
SEP 20...	67	55	28	0	9.6	.9	2.8	.7	35	0	29	1.9

DATE	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	NITROGEN, NITRATE DISSOLVED (MG/L AS N)	NITROGEN, NITRATE DISSOLVED (MG/L AS NO3)	NITROGEN, NITRITE DISSOLVED (MG/L AS N)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)
JUL 05...	4.3	.1	7.3	70	.36	1.6	.00	.00	.36	.36	.02	--
SEP 20...	4.1	.0	.8	56	.43	1.9	.01	.03	.40	.40	.01	.01

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS NH4)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS NO3)	PHOSPHORUS, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)
JUL 05...	--	.64	--	.66	.03	.63	1.0	4.5	.03	.01	.01	.01
SEP 20...	.01	.57	.52	.58	.05	.53	.98	4.3	.01	.01	.00	.00

DATE	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4)	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	ZINC, DISSOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DISSOLVED (MG/L AS C)
JUL 05...	.03	50	5	0	7	510	30	<.5	0	10	13	5.6
SEP 20...	.00	30	0	1	3	580	400	<.5	0	10	10	5.0

02356000 FLINT RIVER AT BAINBRIDGE, GA.

LOCATION.--Lat 30°54'41", long 84°34'48", Decatur County, Hydrologic Unit 03130008, on downstream side of highway bridge on Business Route 27, 0.2 mi (0.3 km) downstream from Seaboard Coast Line Railroad bridge, at mile 29.0, and 29.2 mi (47.0 km) upstream from Jim Woodruff Dam.

DRAINAGE AREA.--7,570 mi^2 (19,600 km^2).

PERIOD OF RECORD.--Discharge: October 1907 to December 1913, October 1928 to September 1971. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1904 are contained in reports of National Weather Service.

Chemical analyses: February 1968 to September 1973.
Annual peaks: Water years 1972-76, 1978.
Continuous gage-height record: August 1977 to current year.

GAGE.--Water-stage recorder. Datum of gage is 58.06 ft (17.70 m) National Geodetic Vertical Datum of 1929. Prior to Dec. 31, 1913, nonrecording gage at same site at datum 0.3 ft (0.09 m) higher. Oct. 1, 1928, to Jan. 14, 1929, nonrecording gage at present site and datum. Auxiliary water-stage recorder at site 6.4 mi (10.3 km) upstream Jan. 15, 1957, to September 1971.

REMARKS.--Flow regulated by powerplants at Flint River Reservoir since 1921, capacity, 7,500 acre-ft (9.25 hm^3); and at Warwick Reservoir since 1930, capacity, about 35,000 acre-ft (43.2 hm^3). Normal operation of powerplants does not materially affect figures of monthly runoff.

AVERAGE DISCHARGE.--49 years (water years 1908-13, 1929-71), 8,740 ft^3/s (248 m^3/s), 15.68 in/yr (398.3 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 83,200 ft^3/s (2,360 m^3/s) Mar. 21, 1929, gage height, 37.73 ft (11.500 m); minimum daily discharge, 1,340 ft^3/s (37.9 m^3/s) Sept. 25, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1893, 40.0 ft, present datum, Jan. 24, 1925, discharge, 101,000 ft^3/s (2,860 m^3/s), from rating curve extended above 70,000 ft^3/s (1,980 m^3/s) on basis of slope-conveyance studies.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 45,000 ft^3/s (1,270 m^3/s) Jan. 31, gage height, 27.00 ft (8.230 m).

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.17	18.55	19.20	19.11	26.84	19.55	20.16	19.44	19.66	19.49	19.44	18.62
2	18.79	18.75	19.73	18.58	26.78	19.78	19.84	19.88	19.78	19.17	19.67	19.39
3	18.34	19.08	19.45	19.12	26.63	20.09	19.64	20.14	19.79	18.93	19.52	18.97
4	18.46	19.62	19.17	19.56	25.98	20.12	19.80	19.78	19.56	---	19.76	18.52
5	18.72	19.83	18.66	19.84	24.53	20.09	19.83	20.36	19.54	---	19.67	18.56
6	18.94	19.81	19.21	20.00	22.96	19.72	19.63	20.58	19.84	---	19.45	18.69
7	19.05	19.95	19.52	19.89	22.18	19.81	19.65	20.81	19.93	---	19.27	18.84
8	19.02	19.82	19.94	19.57	21.39	20.18	19.72	21.25	19.81	---	19.49	18.96
9	18.64	19.76	19.75	19.37	21.16	20.50	19.66	21.31	19.95	---	19.59	19.03
10	18.09	20.02	19.31	19.58	21.12	21.00	19.57	21.32	19.90	---	19.51	18.59
11	18.23	20.27	19.32	19.71	20.71	21.86	19.48	21.94	19.59	---	19.58	18.17
12	18.45	20.74	18.63	19.53	20.44	22.30	19.61	22.50	19.39	---	19.84	18.31
13	18.63	21.16	18.88	19.69	20.38	22.82	19.78	22.31	19.43	---	19.99	18.57
14	18.79	21.04	19.26	20.01	20.49	22.89	19.80	21.59	19.66	---	19.86	18.79
15	18.91	21.23	19.45	19.78	20.20	22.73	20.11	21.49	19.76	---	19.90	18.96
16	18.47	20.30	19.41	19.77	20.10	23.16	20.47	21.32	19.72	---	19.91	19.08
17	17.88	19.99	19.69	19.92	20.07	23.35	20.58	21.06	19.76	---	19.15	18.93
18	18.07	19.56	18.85	19.92	20.19	23.33	20.69	20.61	19.34	19.53	19.85	18.76
19	18.47	19.71	17.92	19.81	19.93	22.54	20.60	20.14	18.96	19.66	19.73	18.87
20	18.71	18.79	18.16	20.00	19.99	21.99	20.52	20.04	18.95	19.59	19.54	19.02
21	18.92	18.23	18.69	20.19	20.21	20.72	20.53	19.91	19.10	19.49	19.13	19.11
22	18.97	18.55	18.97	20.25	20.32	20.66	20.67	19.68	19.15	19.60	19.20	19.12
23	18.47	18.80	19.30	20.49	20.33	20.67	20.66	19.80	19.25	19.34	19.21	18.91
24	18.00	19.04	19.51	20.54	20.13	20.64	20.30	19.82	19.32	19.08	19.25	18.53
25	18.22	18.99	19.17	20.88	19.95	20.42	20.03	19.64	18.99	19.14	19.38	18.21
26	18.73	18.95	18.37	22.02	19.67	20.38	19.87	19.58	18.66	19.21	19.45	18.29
27	19.10	18.63	18.51	23.15	19.28	20.21	19.83	19.53	18.83	19.32	19.07	18.43
28	19.24	18.20	19.07	24.63	19.32	20.25	20.03	19.20	19.04	19.44	18.80	18.49
29	19.14	17.99	19.41	25.88	---	20.07	20.05	18.92	19.28	19.46	19.01	18.54
30	18.55	17.99	19.93	26.66	---	19.84	19.63	19.08	19.47	19.24	19.12	18.55
31	18.32	---	19.96	26.93	---	19.91	---	19.38	---	18.99	19.24	---
MEAN	18.63	19.45	19.17	20.79	21.47	21.02	20.02	20.40	19.45	---	19.47	18.73
MAX	19.24	21.23	19.96	26.93	26.84	23.35	20.69	22.50	19.95	---	19.99	19.39
MIN	17.88	17.99	17.92	18.58	19.28	19.55	19.48	18.92	18.66	---	18.80	18.17

02356015 FLINT RIVER BELOW BAINBRIDGE, GA.

LOCATION.--Lat 30°53'34", long 84°36'38", Decatur County, Hydrologic Unit 03130008, at Bainbridge, 0.8 mi (1.3 km) downstream from State Docks, and at mile 26.5 (42.6 km).

DRAINAGE AREA.--7,570 mi^2 (19,600 km^2), approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT					
06...	1200	7.9	26.0	23.0	7.7
NOV					
08...	0830	7.3	15.0	19.0	7.1
DEC					
08...	1115	7.6	6.0	12.0	9.5
JAN					
09...	1315	7.4	.0	8.0	10.2
FEB					
14...	0715	7.3	6.0	8.0	10.2
MAR					
09...	0845	7.3	10.0	11.0	9.2
APR					
05...	1120	7.6	29.0	20.0	7.6
MAY					
09...	0940	7.2	25.5	21.0	7.3
JUN					
08...	0830	7.4	24.0	25.0	6.2
JUL					
13...	1215	7.6	28.0	26.5	6.7
AUG					
10...	1000	7.5	28.0	27.5	6.5
SEP					
13...	0615	8.0	22.0	26.0	7.2

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	ALKALINITY (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
06...	145	20	7	.7	<30	--	.84	.08	.11	4.0
NOV										
08...	94	20	8	.6	750	--	.47	.08	.14	3.0
DEC										
08...	83	55	13	.6	930	--	.40	.10	.07	4.0
JAN										
09...	91	45	11	--	--	--	.60	.19	.07	4.0
FEB										
14...	102	45	17	.2	750	--	.64	.04	.05	<1.0
MAR										
09...	98	40	10	.3	4300	--	.56	.14	.05	2.0
APR										
05...	124	20	10	.8	210	--	.60	.10	.07	3.5
MAY										
09...	71	60	16	.7	2300	--	.38	.05	.05	4.1
JUN										
08...	114	50	18	--	--	--	.69	.20	.05	2.0
JUL										
13...	144	30	5	--	--	64	.80	<.02	.05	1.5
AUG										
10...	104	40	9	.3	230	42	.50	.04	.07	<1.0
SEP										
13...	128	40	9	.8	230	64	.62	<.02	.08	<1.0

02357000 SPRING CREEK NEAR IRON CITY, GA.

LOCATION.--Lat 31°02'23", long 84°44'18", Decatur County, Hydrologic Unit 03130010, on right bank 25 ft (7.620 m) downstream from county bridge, 1.5 mi (2.4 km) downstream from Aycock Creek, 1.5 mi (2.4 km) upstream from Dry Creek, 5.0 mi (8.0 km) north of Brinson, and 5.5 mi (8.8 km) northeast of Iron City.

DRAINAGE AREA.--485 mi^2 (1,260 km^2), approximately.

PERIOD OF RECORD.--October 1920 to June 1921, June 1937 to April 1971, water years 1972-76 (annual maximum), December 1976 to September 1978 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 85.7 ft (26.121 m) National Geodetic Vertical Datum of 1929. Oct. 21, 1920, to June 30, 1921, nonrecording gage at site 125 ft (38.1 m) upstream at different datum, June 11, 1937, to Oct. 17, 1952, nonrecording gage at site 125 ft (38.1 m) upstream at present datum, Oct. 18, 1952, to April 1971, recording gage at same site and datum as present, May 1971 to Dec. 1976, nonrecording gage at same site and datum as present.

REMARKS.--Records good except those for periods of no gage-height record, Sept. 7-21, which are fair.

AVERAGE DISCHARGE.--34 years (1937-70, 1978), 484 ft^3/s (13.7 m^3/s), 13.55 in/yr (344.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--.Maximum discharge, 17,700 ft^3/s (501 m^3/s) Apr. 12, 1975, gage height, 19.43 ft (5.922 m); maximum gage height, 19.9 ft (6.066 m) Apr. 2, 1948; minimun discharge, 9.1 ft^3/s (0.26 m^3/s) Oct. 30 to Nov. 2, 1954.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,400 ft^3/s (379 m^3/s) Jan. 28, gage height, 18.35 ft (5.593 m); minimum discharge, 41 ft^3/s (1.16 m^3/s) Oct. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	107	55	198	313	2080	712	710	464	251	116	133	151
2	110	52	195	306	1850	749	684	494	244	108	144	140
3	108	51	190	301	1770	869	646	545	251	127	152	128
4	103	53	189	304	1810	1080	612	779	301	158	160	120
5	100	60	196	304	1930	1230	579	1140	478	191	179	110
6	88	89	205	297	1960	1290	547	1690	1700	209	206	102
7	77	128	206	286	1770	1300	517	2140	2040	212	209	96
8	72	209	205	283	1480	1390	491	1980	1390	218	219	93
9	69	409	204	298	1300	2670	469	1470	978	220	236	90
10	67	588	300	303	1190	8640	446	1220	807	198	262	87
11	66	570	430	308	1100	10800	420	1250	705	176	403	85
12	66	462	360	319	1030	7290	408	1390	655	179	659	87
13	66	346	300	337	982	4730	471	1860	595	186	1270	89
14	66	293	290	353	939	3710	629	1680	552	181	1620	87
15	64	273	275	338	898	4290	701	1230	549	224	1620	87
16	61	257	260	318	873	5250	886	972	480	218	1210	85
17	57	249	250	314	849	5290	1370	852	387	213	835	83
18	55	236	280	324	868	4100	1270	776	336	192	610	81
19	52	230	320	372	881	2920	985	728	297	191	477	79
20	50	236	332	474	886	2170	838	649	265	168	400	77
21	47	242	326	502	905	1770	809	585	241	159	350	75
22	44	248	310	566	929	1490	819	532	222	153	340	72
23	43	260	303	650	912	1320	926	490	205	142	337	69
24	42	262	304	785	838	1200	869	451	189	132	337	67
25	44	241	321	995	765	1100	712	411	176	125	321	67
26	48	221	351	2540	709	1040	600	376	164	129	282	65
27	52	209	348	8370	665	970	547	346	151	131	243	64
28	52	204	326	12500	654	901	520	319	139	132	217	62
29	52	200	314	7570	---	844	502	298	128	132	193	60
30	54	197	315	4010	---	791	480	277	122	133	174	60
31	56	---	319	2680	---	746	---	262	---	133	161	---
TOTAL	2038	7130	8/22	47620	32823	82652	20463	27654	14996	5186	13959	2618
MEAN	65.7	238	281	1536	1172	2666	682	892	500	167	450	87.3
MAX	110	588	430	12500	2080	10800	1370	2140	2040	224	1620	151
MIN	42	51	189	283	654	712	408	262	122	108	133	60
CFSM	.14	.49	.58	3.17	2.42	5.50	1.41	1.84	1.03	.34	.93	.18
IN.	.16	.55	.67	3.65	2.52	6.34	1.57	2.12	1.15	.40	1.07	.20

CAL YR 1977 TOTAL 169389 MEAN 464 MAX 4580 MIN 18 CFSM .96 IN 12.99
WTR YR 1978 TOTAL 265861 MEAN 728 MAX 12500 MIN 42 CFSM 1.50 IN 20.39

LAKES IN APALACHICOLA RIVER BASIN

02334400 **LAKE SIDNEY LANIER**.--Lat 34°04'30", long 84°04'20", Forsyth County, Hydrologic Unit 03130001, at forebay of dam on Chattahoochee River, 2.5 mi (4.0 km) upstream from bridge on State Highway 20, 4.5 mi (7.2 km) northwest of Buford, Ga., and at mile 348.3 (560.4 km). **DRAINAGE AREA**, 1,040 mi² (2,690 km²), approximately. **PERIOD OF RECORD**, January 1956 to current year. **GAGE**, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

Lake is formed by a rolled-fill earth dam; storage began in January 1956; dam completed in June 1957. Usable capacity, 1,686,000 acre-ft (2,080 hm³) between elevations 1,035 and 1,085 ft (315.5 and 330.7 m). Dead storage, 868,000 acre-ft (1,070 hm³). Lake is used for flood control and power. Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 2,205,200 acre-ft (2,720 hm³) Apr. 14, 1965, elevation, 1,077.20 ft (328.331 m); minimum, after beginning operation, 1,480,800 acre-ft (1,830 hm³) Dec. 18, 1970, elevation, 1,057.53 ft (322.335 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 2,017,600 acre-ft (2,488 hm³) Jan. 27, elevation, 1,072.60 ft (326.928 m); minimum, 1,702,600 acre-ft (2,099 hm³) Oct. 1, elevation, 1,064.13 ft (324.347 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1064.12	1702200	-	-
Oct. 31................	1066.52	1787800	+85600	+1392
Nov. 30................	1070.47	1934900	+147100	+2472
Dec. 31................	1070.32	1929200	-5700	-93
CAL YR 1977	-	-	+88100	+122
Jan. 31................	1071.80	1986400	+57200	+930
Feb. 28................	1071.12	1921600	-64800	-1167
Mar. 31................	1070.76	1945900	+24300	+395
Apr. 30................	1071.04	1956800	+10900	+183
May 31................	1071.07	1957900	+1100	+18
June 30................	1070.36	1930700	-27200	-457
July 31................	1068.48	1860000	-70700	-1150
Aug. 31................	1068.43	1858100	-1900	-31
Sept. 30................	1065.49	1750700	-107400	-1805
WTR YR 1978	-	-	+48500	+67

02339400 **WEST POINT LAKE**.--Lat 32°55'05", long 85°11'17", Troup County, Hydrologic Unit 03130002, at forebay of dam on Chattahoochee River, 2.3 mi (3.7 km) upstream from Oseligee Creek, 3.0 mi (4.8 km) north of West Point, Ga., 3.2 mi (5.1 km) upstream from bridge on U.S. Highway 29, and at mile 201.4 (324.1 km). **DRAINAGE AREA**, 3,440 mi² (8,910 km²), approximately. **PERIOD OF RECORD**, October 1974 to current year. **GAGE**, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

Lake is formed by concrete gravity dam with earth dikes at either side. Spillway, crest elevation, 597 ft (181.97 m) is equipped with 6 taintor gates 50 ft (15.2 m) wide by 41 ft (12.5 m) high. Storage began Oct. 16, 1974 and lake reached maximum power pool, 635 ft (193.55 m), on June 10, 1975. Total capacity at elevation, 641 ft (195.38 m); maximum flood control pool, 774,800 acre-ft (955 hm³). Capacity at elevation, 635 ft (193.55 m), maximum power pool, 604,500 acre-ft (745 hm³). Dead storage below elevation 620 ft (188.98 m), minimum power pool, 298,400 acre-ft (368 hm³). Lake is used for flood control and power. Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 662,800 acre-ft (817 hm³) May 15, 22, 1978, elevation, 637.22 ft (194.225 m); minimum, since first filling, 361,400 acre-ft (446 hm³), Jan. 9, 1976, elevation, 623.78 ft (190.128 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 662,800 acre-ft (817 hm³) May 15, 22, elevation, 637.22 ft (194.225 m); minimum, 397,600 acre-ft (490 hm³) Dec. 16, elevation, 625.75 ft (190.729 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	632.90	552000	-	-
Oct. 31................	634.40	589200	+37200	+605
Nov. 30................	628.10	444400	-144800	-2434
Dec. 31................	627.10	424000	-204000	-332
CAL YR 1977	-	-	+25400	+35
Jan. 31................	633.63	569800	+145800	+2371
Feb. 28................	628.80	459000	+110800	-1995
Mar. 31................	629.90	482700	+23700	+385
Apr. 30................	635.50	617600	+134900	+2267
May 31................	636.54	645300	+27700	+450
June 30................	635.80	625500	-19800	-333
July 31................	633.80	574100	-51400	-836
Aug. 31................	631.80	525800	-48300	-785
Sept. 30................	626.50	412100	-113700	-1911
WTR YR 1978	-	-	-139900	-193

LAKES IN APALACHICOLA RIVER BASIN--Continued

02341000 **LAKE HARDING.**--Lat 32°39'46", long 85°05'27", Harris County, Hydrologic Unit 03130002, at forebay of dam on Chattahoochee River, 3.3 mi (5.3 km) upstream from Mulberry Creek, 15 mi (24 km) northwest of Columbus, Ga., and at mile 178.0 (286.4 km). DRAINAGE AREA, 4,240 mi^2 (11,000 km^2), approximately. PERIOD OF RECORD, October 1929 to current year. Datum of gage is at mean sea level (levels by G[illegible]ia Power Co.).

Reservoir is formed by concret[illegible]vity dam with earth fill abutments. Spillway, crest elevation, 500.0 ft (152.40 m) is equipped with 19 taintor g[illegible]tes 25 [illegible] (7.62 m) wide by 21 ft (6.40 m) high and 2 trash gates 11 ft (3.35 m) wide by 9 ft (2.74 m) high. Storage began in 1926; [illegible]ater in reservoir first reached minimum pool elevation in 1926. Total capacity at elevation 521.0 ft (158.80 m) (top of gates) is 181,000 acre-ft (223 hm^3), of which 136,000 acre-ft (168 hm^3) is usable storage. Reservoir is used for power development. Capacity curve and monthend elevations furnished by Georgia Power Co.

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet) †	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	519.5	172000	-	-
Oct. 31................	517.7	161000	-11000	-179
Nov. 30................	519.3	171000	+10000	+168
Dec. 31................	517.9	162000	-9000	-146
CAL YR 1977	-	-	+25000	+35
Jan. 31................	520.9	180000	+18000	+293
Feb. 28................	519.5	172000	-8000	-144
Mar. 31................	520.1	176000	+4000	+65
Apr. 30................	520.4	177000	+1000	+17
May 31................	520.4	177000	0	0
June 30................	520.4	177000	0	0
July 31................	519.1	170000	-7000	-114
Aug. 31................	520.4	177000	+7000	+114
Sept. 30................	519.6	173000	-4000	-67
WTR YR 1978	-	-	+1000	+1

† Elevation at 0700 on day following that shown in first column.

02343240 **WALTER F. GEORGE LAKE.**--Lat 31°37'27", long 85°04'03", Clay County, Hydrologic Unit 03130003, at forebay of dam on Chattahoochee River, 1.6 mi (2.6 km) upstream from bridge on State Highway 37, 1 mi (1.6 km) north of Ft. Gaines, Ga., and at mile 75.0 (120.7 km). DRAINAGE AREA, 7,460 mi^2 (19,300 km^2), approximately. PERIOD OF RECORD, May 1962 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

Reservoir is formed by concrete gravity dam and navigation lock with earth dikes on either side. The non-overflow section at the dam includes a powerhouse. Filling began in May 1962. Power operations commenced on Mar. 13, 1963. The spillway, crest elevation, 163.0 ft (49.68 m), is equipped with 14 taintor gates 42 ft (12.80 in) wide by 29 ft (8.84 m) high. Total capacity at elevation 190.0 ft (57.91 m), full summer pool, 934,400 acre-ft (1,150 hm^3), of which 244,400 acre-ft (301 hm^3) between elevations 190.0 and 184.0 ft (57.91 and 56.08 m), minimum pool, is controlled storage. Lake is used for navigation and power. Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 993,700 acre-ft (1,230 hm^3) May 20, 1969, elevation, 191.28 ft (58.302 m); minimum, after first filling, 660,400 acre-ft (814 hm^3) Apr. 23, 1965, elevation, 183.17 ft (55.830 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 955,400 acre-ft (1,178 hm^3) May 11, elevation, 190.46 ft (58.052 m); minimum, 768,700 acre-ft (947.8 hm^3) Sept. 21, elevation, 186.08 ft (56.717 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	188.40	864000	-	-
Oct. 31................	187.60	830300	-33700	-548
Nov. 30................	188.50	868300	+38000	+639
Dec. 31................	188.30	859700	-8600	-140
CAL YR 1977	-	-	+74300	+103
Jan. 31................	187.40	821900	-37800	-615
Feb. 28................	188.90	885600	+63700	+1147
Mar. 31................	187.60	830300	-55300	-899
Apr. 30................	188.70	876900	+46600	+783
May 31................	189.50	912000	+35100	+571
June 30................	188.40	864000	-48000	-807
July 31................	189.40	907600	+43600	+709
Aug. 31................	188.60	872600	-35000	-569
Sept. 30................	186.60	789400	-83200	-1398
WTR YR 1978	-	-	-74600	-103

LAKES IN APALACHICOLA RIVER BASIN--Continued

02357500 LAKE SEMINOLE.--Lat 30°42'33", long 84°51'45", Gadsden County, Fla., Hydrologic Unit 03130004, on right upstream lock wall of Jim Woodruff Dam on Chattahoochee River, 0.6 mi (1.0 km) upstream from bridge on U.S. Highway 90, and 1.5 mi (2.4 km) northwest of Chattahoochee, Fla. DRAINAGE AREA, 17,100 mi^2 (44,300 km^2), approximately. PERIOD OF RECORD, October 1954 to current year. Prior to October 1959, published as Jim Woodruff Reservoir at Chattahoochee. REVISIONS, WSP 1554: 1955-57. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers). Prior to July 22, 1957, nonrecording gage at same site at datum 53.96 ft (16.45 m) higher; gage readings have been reduced to elevations above mean sea level.

Lake is formed by earthfill dam with concrete fixed-crest spillway, a center channel spillway with 16 vertical lift gates 40 ft (12.2 m) long and 30.5 ft (9.30 m) high, and a side channel navigation lock 82 ft (25 m) wide. Gates closed on May 20, 1954; filling of pool accomplished in several stages between that date and Feb. 4, 1957, when the pool first reached normal operating level, 77.0 ft (23.47 m). Total capacity at elevation 77.0 ft (23.47 m), normal pool, is 367,300 acre-ft (453 hm^3), of which 36,170 acre-ft (44.6 hm^3) between elevations 77.0 and 76.0 ft (23.47 and 23.16 m) is used for pondage. Lake is used for navigation and power. Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 433,000 acre-ft (534 hm^3) Apr. 7, 8, 1960, elevation, 78.66 ft (23.976 m); minimum after Feb. 4, 1957, 278,000 acre-ft (343 hm^3) Nov. 4, 1968, elevation, 74.40 ft (22.677 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 407,400 acre-ft (502 hm^3) Jan. 26, elevation, 78.03 ft (23.784 m); minimum, 339,200 acre-ft (418 hm^3) Sept. 11, elevation, 76.23 ft (23.235 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	77.32	379500	-	-
Oct. 31................	77.02	368100	-11400	-185
Nov. 30................	76.89	363200	-4900	-82
Dec. 31................	77.47	385200	+22000	+358
CAL YR 1977	-	-	-3200	-4
Jan. 31................	77.70	394200	+9000	+146
Feb. 28................	77.18	374100	-20100	-362
Mar. 31................	77.68	393400	+19300	+314
Apr. 30................	77.31	379100	-14300	-240
May 31................	77.37	381400	+2300	+37
June 30................	77.59	389900	+8500	+143
July 31................	77.13	372200	-17700	-288
Aug. 31................	77.42	383300	+11100	+181
Sept. 30................	76.61	352900	-30400	-511
WTR YR 1978	-	-	-26600	-37

02380500 COOSAWATTEE RIVER NEAR ELLIJAY, GA.

LOCATION.--Lat 34°40'18", long 84°30'31", Gilmer County, Hydrologic Unit 03150102, on right bank 0.5 mi (0.8 km) downstream from State Highway 5, 2 mi (3.2 km) southwest of Ellijay, and 2.2 mi (3.5 km) downstream from confluence of Cartecay and Ellijay Rivers.

DRAINAGE AREA.--238 mi^2 (616 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to December 1949, occasional low-flow measurements 1959, 1961-62. June 1963 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,216.04 ft (370.65 m) National Geodetic Vertical Datum of 1929. Prior to June 10, 1940, nonrecording gage at site 0.5 mi (0.8 km) upstream at datum 8.04 ft (2.45 m) higher.

REMARKS.--Records good. Records of chemical analyses for the period March 1968 to March 1972 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--26 years (1938-49, 1963-78), 521 ft^3/s (14.8 m^3/s), 29.73 in/yr (755.1 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft^3/s (481 m^3/s) Oct. 4, 1964, gage height, 17.63 ft (5.374 m); minimum, 101 ft^3/s (2.68 m^3/s) several days in October 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1938, 20.7 ft (6.31 m) Mar. 19, 1951, from floodmark.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,500 ft^3/s (99.1 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 5	2400	*4400	125	6.05	1.844	Jan. 26	0145	3720	105	5.43	1.655

Minimum discharge, 150 ft^3/s (4.25 m^3/s) Sept. 30, gage height, 1.33 ft (0.405 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	268	287	617	587	897	518	509	829	384	268	231	223
2	1080	279	556	569	878	527	501	678	376	268	220	233
3	537	286	520	538	845	699	486	585	378	260	215	240
4	335	645	513	517	796	624	477	627	372	250	350	216
5	296	3660	646	514	750	563	473	626	359	243	705	206
6	272	3500	585	593	719	537	465	549	354	231	649	205
7	253	2430	510	632	692	530	459	553	600	227	684	203
8	403	1590	483	1250	680	643	447	725	895	223	502	195
9	1250	1010	549	2120	667	969	442	1500	660	219	460	188
10	619	807	497	1180	656	1710	439	885	483	239	565	183
11	434	675	465	916	638	1060	588	725	424	211	502	178
12	357	606	451	830	624	872	553	654	416	207	537	198
13	315	555	443	855	689	767	502	746	539	211	443	218
14	293	509	521	825	654	924	458	666	421	250	436	203
15	279	478	524	787	619	832	442	627	385	287	360	206
16	269	505	476	776	635	759	436	605	376	250	430	202
17	258	1250	476	993	597	710	426	580	367	227	335	196
18	250	811	725	997	600	683	668	567	361	223	315	183
19	245	646	583	940	585	652	1130	541	360	219	305	173
20	239	568	536	1410	572	632	653	499	435	211	300	168
21	235	533	498	1240	577	628	572	467	400	207	287	178
22	232	527	468	1050	575	661	523	450	340	203	273	177
23	227	567	455	957	568	605	508	448	335	200	265	179
24	223	533	520	920	564	585	488	556	310	223	260	183
25	572	500	1450	2410	553	576	571	484	305	255	255	186
26	1010	465	901	2870	540	609	596	448	300	282	251	171
27	505	458	724	1820	513	577	526	431	300	255	265	164
28	396	615	640	1410	538	557	490	440	295	223	251	158
29	351	563	589	1180	---	539	475	433	291	219	243	156
30	322	553	615	1010	---	524	522	418	273	220	231	152
31	300	---	619	945	---	514	---	397	---	220	219	---
TOTAL	12625	26411	18155	33641	18221	21586	15825	18739	12094	7231	11344	5721
MEAN	407	880	586	1085	651	696	528	604	403	233	366	191
MAX	1250	3660	1450	2870	897	1710	1130	1500	895	287	705	240
MIN	223	279	443	514	513	514	426	397	273	200	215	152
CFSM	1.71	3.70	2.46	4.56	2.74	2.92	2.22	2.54	1.69	.98	1.54	.80
IN.	1.97	4.13	2.84	5.26	2.85	3.37	2.47	2.93	1.89	1.13	1.77	.89

CAL YR 1977 TOTAL 216055 MEAN 592 MAX 6930 MIN 165 CFSM 2.49 IN 33.77
WTR YR 1978 TOTAL 201593 MEAN 552 MAX 3660 MIN 152 CFSM 2.32 IN 31.51

02380500 COOSAWATTEE RIVER NEAR ELLIJAY, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to March 1972, December 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
DEC 26...	1540	628	4.0	6.0	12	20	62
FEB 06...	1600	712	4.0	6.0	3	5.8	80
MAR 21...	1610	607	12.0	6.0	8	13	100
MAY 02...	1530	656	--	14	34	61	87
JUN 12...	1515	400	21.5	19	45	49	97
SEP 05...	1300	207	--	3.0	18	18	63

02381600 FAUSETT CREEK NEAR TALKING ROCK, GA.

LOCATION.--Lat 34°34'13", long 84°28'08", Gilmer County, Hydrologic Unit 03150102, on right bank 25 ft (7.6 m) upstream from culvert on county road, 3.6 mi (5.8 km) upstream from mouth, and 4.5 mi (7.2 km) northeast of Talking Rock.
DRAINAGE AREA.--9.99 mi^2 (25.9 km^2).
PERIOD OF RECORD.--Annual maximum, water years 1966-74, October 1974 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 1,320 ft (402 m), from topographic map.
REMARKS.--Records good except those for period of no gage-height, Dec. 3-29, which are fair.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,160 ft^3/s (89.5 m^3/s) May 29, 1973, gage height, 16.96 ft (5.169 m), from floodmarks; minimum daily, 4.5 ft^3/s (0.127 m^3/s) Sept. 4, 1977.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft^3/s (8.50 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 4	2230	*614	17.4	5.44	1.658	Apr. 18	2400	574	16.3	5.24	1.597

Minimum daily discharge, 5.1 ft^3/s (0.144 m^3/s) Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	10	19	17	26	17	15	41	14	9.3	7.4	6.7
2	32	10	17	16	26	18	15	28	14	9.1	6.3	6.8
3	10	11	15	15	25	21	15	23	14	9.1	7.5	6.8
4	8.6	81	15	15	24	18	14	25	13	8.2	22	6.1
5	8.2	183	20	14	23	17	14	22	13	7.5	24	6.0
6	7.8	97	19	18	23	17	14	20	12	7.5	23	6.0
7	7.4	61	17	20	22	17	14	25	30	7.4	34	5.9
8	25	30	16	93	22	22	14	51	29	6.9	16	5.7
9	48	22	17	66	21	55	13	48	21	6.6	28	5.6
10	15	18	16	34	21	67	13	30	16	7.0	19	5.4
11	11	16	15	26	21	34	18	25	15	6.5	19	5.4
12	9.9	15	14	24	20	27	16	23	19	6.4	21	6.7
13	9.5	14	14	25	23	23	15	25	19	6.8	17	6.5
14	9.1	13	16	22	21	31	14	22	15	10	12	6.7
15	8.8	12	17	20	20	25	13	22	14	18	13	6.9
16	8.6	17	15	19	20	23	13	21	13	11	11	6.5
17	8.6	54	16	34	18	21	13	20	13	8.2	9.7	6.1
18	8.5	23	18	27	18	20	46	19	13	7.5	12	5.7
19	8.3	19	16	35	18	20	92	18	12	7.1	11	5.5
20	8.2	17	15	46	18	19	31	17	14	6.8	9.7	5.5
21	8.0	16	14	32	18	19	24	17	13	6.6	9.0	5.3
22	7.8	15	13	27	18	19	21	16	12	6.3	8.5	5.2
23	7.8	18	12	25	18	18	19	17	11	6.2	8.1	5.2
24	7.8	18	25	30	17	18	19	17	11	6.2	7.7	5.3
25	39	16	60	143	17	19	26	16	11	7.4	7.4	5.5
26	25	15	35	78	17	20	24	15	11	7.2	7.4	5.5
27	16	14	23	44	16	19	21	15	10	8.0	7.3	5.2
28	13	21	18	36	17	18	19	16	9.9	7.2	7.1	5.2
29	11	18	17	32	---	17	18	15	9.7	6.5	7.0	5.1
30	11	18	19	29	---	17	24	15	9.6	6.2	6.9	5.1
31	10	---	18	27	---	16	---	15	---	7.7	6.8	---
TOTAL	417.4	892	581	1089	568	712	627	699	431.2	242.4	405.8	175.1
MEAN	13.5	29.7	18.7	35.1	20.3	23.0	20.9	22.5	14.4	7.82	13.1	5.84
MAX	48	183	60	143	26	67	92	51	30	18	34	6.9
MIN	7.4	10	12	14	16	16	13	15	9.6	6.2	6.3	5.1
CFSM	1.35	2.97	1.87	3.51	2.03	2.30	2.09	2.25	1.44	.78	1.31	.59
IN.	1.55	3.32	2.16	4.05	2.11	2.65	2.33	2.60	1.61	.90	1.51	.65

CAL YR 1977 TOTAL 7784.8 MEAN 21.3 MAX 365 MIN 4.5 CFSM 2.13 IN 28.99
WTR YR 1978 TOTAL 6839.9 MEAN 18.7 MAX 183 MIN 5.1 CFSM 1.87 IN 25.47

02382200 TALKING ROCK CREEK NEAR HINTON, GA.

LOCATION.--Lat 34°31'22", long 84°36'40", Pickens County, Hydrologic Unit 03150102, on left bank 300 ft (91 m) downstream from Scarecorn Creek, and 3.3 mi (5.3 km) northwest of Hinton.

DRAINAGE AREA.--120 mi^2 (311 km^2).

PERIOD OF RECORD.--November 1973 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 890 ft (271 m), from topographic map.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,300 ft^3/s (292 m^3/s) Apr. 4, 1977, gage height, 12.35 ft (3.764 m); minimum, 34 ft^3/s (0.96 m^3/s) Sept. 28-30, 1978.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 28, 1973, reached a stage of 15.45 ft (4.709 m), from floodmarks; discharge, 18,400 ft^3/s (521 m^3/s) from rating curve extended above 3,100 ft^3/s (87.8 m^3/s) on basis of slope-area measurements at gage heights 8.66 and 15.45 ft (2.640 and 4.709 m).

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,500 ft^3/s (70.8 m^3/s), revised, and maximum (*):

Date	Time	Discharge		Gage height		Date	Time	Discharge		Gage height	
		(ft^3/s)	(m^3/s)	(ft)	(m)			(ft^3/s)	(m^3/s)	(ft)	(m)
Nov. 5	unknown	*4060	115	7.66	2.335	Jan. 25	2100	2900	82.1	6.38	1.945

Minimum discharge, 34 ft^3/s (0.96 m^3/s) Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	129	253	229	310	199	211	408	162	104	96	58
2	343	126	235	217	306	201	213	348	160	101	71	63
3	178	150	220	205	290	248	215	290	166	100	57	81
4	127	400	207	196	277	221	213	298	160	97	87	57
5	109	1500	295	193	270	208	214	281	145	91	162	51
6	101	1250	250	235	260	206	212	248	144	88	135	50
7	93	820	214	259	250	206	210	271	396	85	248	52
8	217	510	202	1030	248	239	205	517	447	81	197	50
9	795	319	229	998	245	465	202	801	312	78	223	46
10	295	268	207	441	241	965	200	392	221	89	209	43
11	214	238	198	340	236	448	234	309	192	80	165	41
12	169	211	190	307	231	352	245	276	188	73	155	51
13	145	193	184	277	259	303	227	286	203	73	152	69
14	127	184	205	277	245	380	210	255	169	81	114	70
15	118	178	205	247	231	333	201	251	154	166	109	77
16	109	190	190	235	219	301	196	246	151	334	110	73
17	103	616	196	379	221	277	192	235	141	133	95	64
18	98	322	235	339	220	260	282	231	137	95	98	55
19	97	262	208	427	218	250	1010	221	136	85	108	50
20	93	229	190	719	211	243	326	207	147	80	93	46
21	91	217	159	434	213	237	259	209	153	72	86	42
22	89	205	133	355	210	238	229	203	145	69	79	39
23	87	223	124	325	209	226	209	199	127	64	77	38
24	83	220	253	343	208	224	200	199	123	66	75	37
25	319	211	684	1630	205	223	259	191	123	86	78	38
26	424	196	396	1250	202	239	277	187	119	104	64	40
27	247	189	304	581	194	227	250	183	116	88	64	38
28	190	247	259	445	199	220	227	197	112	88	64	36
29	163	265	232	382	---	214	213	187	108	73	63	35
30	142	253	250	346	---	210	213	176	106	64	65	35
31	133	---	247	328	---	208	---	168	---	68	56	---
TOTAL	5596	10321	7552	13969	6628	8773	7554	8470	5163	2956	3455	1525
MEAN	181	344	244	451	237	283	252	273	172	95.4	111	50.8
MAX	795	1500	884	1630	310	965	1010	801	447	334	248	81
MIN	83	126	124	193	194	199	192	168	106	64	56	35
CFSM	1.51	2.87	2.03	3.76	1.98	2.36	2.10	2.28	1.43	.80	.93	.42
IN.	1.73	3.20	2.34	4.33	2.05	2.72	2.34	2.63	1.60	.92	1.07	.47

CAL YR 1977 TOTAL 82396 MEAN 226 MAX 4030 MIN 38 CFSM 1.88 IN 25.54
WTR YR 1978 TOTAL 81962 MEAN 225 MAX 1630 MIN 35 CFSM 1.88 IN 25.41

02382500 COOSAWATTEE RIVER AT CARTERS, GA.

LOCATION.--Lat 34°36'15", long 84°41'29", Murray County, Hydrologic Unit 03150102, on downstream side of left bank pier of bridge on U.S. Highway 411 at Carters, 200 ft (61 m) upstream from Louisville & Nashville Railroad bridge, 0.4 mi (0.6 km) downstream from Carters re-regulation dam, and 0.6 mi (1.0 km) downstream from Talking Rock Creek.

DRAINAGE AREA.--531 mi^2 (1,380 km^2).

PERIOD OF RECORD.--August 1896 to December 1908, October 1918 to September 1923, October 1961 to August 1972, October 1974 to current year.

GAGE.--Water-stage recorder. Datum of gage is 650.67 ft (198.32 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to September 1923, nonrecording gage at site 0.4 mi (0.6 km) upstream at datum 2.00 ft (0.61 m) higher.

REMARKS.--Flow regulated by Carters Lake and Carters re-regulation dam since November 1974. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.) Records of chemical analyses for the water years 1968-74 are published in reports of the Geological Survey.

COOPERATION.--Gage-height record, 8 discharge measurements, and computation of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

AVERAGE DISCHARGE.--31 years (1896-1908, 1918-23, 1961-71, 1974-78), 1,248 ft^3/s (35.3 m^3/s), 31.92 in/yr (810.8 mm/yr), adjusted for storage since 1975.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 28,500 ft^3/s (807 m^3/s) Nov. 19, 1906, gage height, 30.6 ft (9.33 m), present datum; minimum daily, 122 ft^3/s (3.46 m^3/s), regulated; minimum discharge observed prior to regulation, 184 ft^3/s (5.21 m^3/s) several days during September to November 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29 or 30, 1951, reached a stage of about 36 ft (11.0 m), from floodmarks; discharge, 57,000 ft^3/s (1,610 m^3/s), from rating curve extended above 24,000 ft^3/s (680 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,100 ft^3/s (144 m^3/s) Jan. 30, gage height, 12.50 ft (3.810 m); minimum daily, 240 ft^3/s (6.80 m^3/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1090	1500	1050	1090	3040	1400	925	1700	587	512	426	418
2	813	1190	1160	918	3090	2050	1230	1550	668	497	449	396
3	1900	542	1180	1920	2520	2520	1930	1400	1370	472	472	358
4	1330	718	644	1020	1970	2440	1500	2020	1360	435	1450	318
5	737	778	992	1240	1530	1960	588	2670	976	426	1460	322
6	1100	302	1510	1720	1100	976	522	959	827	482	928	330
7	699	246	3090	1830	2140	1950	1050	1490	1000	497	686	342
8	802	403	2320	1070	1530	1520	1600	2010	1930	435	2270	404
9	2450	692	1170	960	1830	1490	1450	2700	2500	311	1560	436
10	2050	1440	1960	976	1620	1760	1210	2670	1330	307	1140	418
11	2460	2120	1160	939	1400	2340	1220	2450	1240	328	1520	378
12	572	2740	1120	2580	1710	2430	1490	1610	1040	319	385	322
13	394	2740	737	2970	1320	2670	1480	1480	1450	380	1300	334
14	408	2860	1280	2920	2050	2070	1370	517	1150	705	1290	396
15	385	2880	1440	2950	1530	2150	1120	820	542	1140	1050	366
16	1530	2990	1190	2810	1160	1900	1190	1160	644	1630	642	358
17	431	3140	813	2060	1230	1610	1370	1860	674	709	886	396
18	408	3220	1830	2370	1370	946	1570	2260	785	431	677	414
19	389	3270	1840	3020	949	1660	2830	2110	1260	724	418	1020
20	610	3180	1450	2990	552	2090	2800	1090	1520	905	396	500
21	638	3180	1770	2820	588	1660	1160	1130	790	380	404	350
22	394	3390	1950	3030	1140	1230	1130	1380	522	311	427	310
23	960	3290	1300	3030	1390	1280	1460	583	594	294	458	326
24	497	2990	552	1880	1260	1410	1190	952	610	681	486	288
25	1220	2590	1380	2710	718	1530	1570	532	610	512	463	267
26	2750	1870	1630	2770	898	1580	1740	1630	610	664	508	288
27	1860	792	2180	3140	1850	2050	1520	1680	638	358	615	278
28	632	1180	2950	3680	1410	1960	1400	1560	1710	401	667	247
29	594	2150	1100	4160	---	1250	1100	1110	1640	389	472	240
30	367	1870	1400	4640	---	855	953	1500	610	403	441	278
31	588	---	1670	3690	---	932	---	463	---	412	445	---
TOTAL	31058	60253	45818	73903	42895	53669	41668	47046	31107	16450	24791	11098
MEAN	1002	2008	1478	2384	1532	1731	1389	1518	1037	531	800	370
MAX	2750	3390	3090	4640	3090	2670	2830	2700	2500	1630	2270	1020
MIN	367	246	552	918	552	855	522	463	507	294	385	240
MEAN†	1023	1963	1380	2491	1543	1721	1423	1491	972	631	749	382
CFSM†	1.93	3.70	2.60	4.69	2.91	3.24	2.68	2.81	1.83	1.19	1.41	0.72
IN†	2.22	4.13	3.00	5.41	3.03	3.74	2.99	3.24	2.04	1.37	1.63	0.80

CAL YR 1977 TOTAL 519829 MEAN 1424 MAX 5000 MIN 246 MEAN† 1424 CFSM† 2.68 IN† 36.38
WTR YR 1978 TOTAL 479756 MEAN 1314 MAX 4640 MIN 240 MEAN† 1313 CFSM† 2.47 IN† 33.53

† Adjusted for change in contents in Carters Lake and Carters re-regulation dam.

02382500 COOSAWATTEE RIVER AT CARTERS, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: April 1978 to current year.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 26.0°C July 23,24, 1978; minimum, 10.0°C April 27, 1978.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 26.0°C July 23, 24; minimum, 10.0°C April 27.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	14.0	12.0	---	---	19.0	18.0	22.0	19.5	22.5	22.0
2	---	---	15.5	11.5	---	---	19.0	18.0	20.5	19.5	23.0	22.0
3	---	---	14.0	10.5	---	---	19.0	18.0	20.5	19.5	23.5	23.0
4	---	---	12.5	11.5	---	---	19.5	18.5	22.5	20.5	24.5	22.5
5	---	---	13.0	11.5	---	---	22.0	18.5	22.5	21.5	24.5	23.0
6	---	---	14.0	11.5	16.5	15.0	20.0	18.5	24.5	21.0	24.0	23.0
7	---	---	15.0	13.5	16.5	15.5	19.5	18.5	23.5	21.0	23.5	22.5
8	---	---	15.5	13.0	17.5	16.0	19.5	18.5	22.5	21.0	23.0	22.5
9	---	---	13.5	12.5	16.5	15.5	19.5	18.5	22.5	19.5	23.0	22.5
10	---	---	14.5	13.0	19.0	15.5	19.5	19.0	22.0	19.5	23.0	22.5
11	---	---	16.5	14.0	18.0	16.5	19.5	18.5	21.0	20.0	24.0	23.0
12	---	---	16.5	13.0	19.5	17.5	19.5	19.0	20.5	20.0	23.5	22.0
13	---	---	16.5	13.5	20.0	16.5	19.5	19.0	21.0	20.0	23.0	22.0
14	---	---	16.5	16.0	19.5	16.5	21.0	19.0	---	---	23.0	22.5
15	---	---	16.0	12.0	19.5	16.5	22.5	21.0	---	---	22.5	22.5
16	---	---	13.5	12.0	18.0	16.5	24.0	22.5	---	---	22.5	22.5
17	---	---	15.0	12.0	17.5	16.5	23.5	20.0	---	---	23.0	22.5
18	13.0	12.5	14.0	12.5	19.5	17.0	22.5	20.5	22.0	21.5	23.0	22.5
19	13.5	12.0	14.0	12.5	20.5	18.5	24.0	20.0	22.0	21.0	23.0	23.0
20	13.5	10.5	15.5	14.5	20.0	17.5	22.5	20.5	22.0	20.5	23.0	23.0
21	11.5	10.5	17.5	14.0	18.0	17.0	22.5	21.5	21.5	20.5	23.0	23.0
22	13.0	10.5	16.0	14.0	19.0	17.0	24.5	23.0	22.5	21.5	23.0	22.5
23	13.0	12.0	15.5	14.0	18.0	16.5	26.0	24.5	22.0	21.5	23.5	22.5
24	13.0	12.0	16.0	14.0	18.0	16.5	26.0	20.5	22.0	21.5	23.5	23.5
25	13.5	10.5	15.0	13.5	18.0	17.0	22.0	19.5	22.5	22.0	23.5	22.5
26	13.0	10.5	15.5	14.0	18.5	17.5	23.0	20.0	22.5	22.0	23.0	22.5
27	12.5	10.0	---	---	18.5	17.5	23.5	20.5	23.0	22.0	23.0	22.5
28	13.0	10.5	---	---	19.5	18.0	22.0	19.5	23.0	22.5	23.0	22.5
29	13.0	11.5	---	---	19.5	17.5	20.5	19.5	22.5	22.0	23.5	22.5
30	13.5	12.5	---	---	18.5	18.0	21.5	20.0	23.0	22.0	22.5	21.0
31	---	---	---	---	---	---	21.5	20.0	22.5	22.0	---	---
MONTH	13.5	10.0	17.5	10.5	20.5	15.0	26.0	18.0	24.5	19.5	24.5	21.0
YEAR	26.0	10.0										

02382720 COOSAWATTEE RIVER NEAR NICKELSVILLE, GA.

LOCATION.--Lat 34°36'03", long 84°46'42", Gordon County, Hydrologic Unit 03150102, near left bank on downstream side of bridge on county road, 2.1 mi (3.4 km) upstream from Noblet Creek, and 6.8 mi (10.9 km) east of Nickelsville.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: October 1974 to current year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 27.0°C July 24, 1978; minimum, 0.5°C Jan. 17, 1977.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.0°C July 24; minimum, 3.0°C Jan. 30.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	---	---	---	---	14.0	12.5	8.5	6.5	5.5	4.0	6.0	5.5
2	---	---	---	---	13.5	13.0	8.0	6.0	5.5	4.0	5.5	5.5
3	---	---	---	---	13.0	12.0	8.0	7.5	5.5	5.5	5.5	5.5
4	---	---	---	---	12.5	12.0	8.5	7.5	5.5	5.0	6.0	5.0
5	---	---	---	---	14.0	12.0	8.5	7.5	5.5	5.0	6.0	5.0
6	---	---	---	---	14.0	12.0	8.5	7.5	5.0	3.5	7.0	5.0
7	---	---	---	---	12.0	11.5	8.0	7.5	5.0	4.0	6.5	6.0
8	---	---	---	---	12.0	11.5	11.0	8.0	4.5	4.5	6.5	6.0
9	---	---	---	---	11.5	10.0	10.0	6.5	5.0	4.5	7.0	6.5
10	---	---	17.0	15.5	10.0	7.5	6.5	5.0	5.5	5.0	7.5	6.5
11	---	---	16.5	16.0	8.5	6.0	5.5	4.5	6.0	4.5	8.0	6.5
12	---	---	16.0	15.5	10.5	6.5	6.0	4.5	5.0	4.5	9.0	7.5
13	---	---	15.5	14.5	11.5	10.5	6.5	5.5	6.0	5.0	9.0	8.0
14	---	---	15.5	14.5	12.0	11.5	6.5	6.0	6.0	5.5	11.5	8.5
15	---	---	15.5	14.0	11.5	11.0	6.5	6.0	6.0	5.0	10.5	8.0
16	---	---	16.0	10.5	11.5	11.0	6.5	4.0	6.5	5.5	8.5	6.5
17	16.0	14.0	16.0	13.5	11.5	11.0	6.5	3.5	7.5	6.0	8.0	6.5
18	18.0	15.5	15.5	15.0	11.5	10.5	6.5	5.5	6.5	6.0	8.0	5.5
19	17.5	15.5	15.5	15.0	11.5	9.5	6.5	6.0	6.5	5.5	8.5	6.5
20	17.0	14.5	15.0	14.0	11.5	10.0	6.5	6.5	7.0	5.0	10.0	7.5
21	18.0	16.0	15.5	12.0	10.5	9.5	6.5	5.5	5.5	5.0	9.0	8.0
22	18.0	16.0	15.5	15.5	10.5	10.0	5.5	5.0	5.5	4.5	10.0	8.0
23	18.0	15.5	15.5	15.5	10.0	9.0	6.5	4.5	5.0	5.0	11.0	8.0
24	17.0	17.0	15.5	15.5	10.0	9.0	6.5	6.0	6.0	5.0	11.0	8.5
25	17.5	17.0	15.5	14.5	10.0	9.0	7.5	6.5	7.0	5.0	11.0	9.5
26	17.5	17.0	14.5	12.5	9.0	6.5	7.5	6.0	6.5	5.0	10.5	10.0
27	17.5	16.0	13.5	11.5	9.5	7.0	6.0	5.5	6.0	5.5	10.0	7.0
28	18.0	16.0	13.5	12.5	9.5	5.5	6.0	5.5	6.0	6.0	9.0	7.0
29	18.0	16.0	14.0	13.5	9.0	8.0	5.5	4.0	---	---	11.0	8.0
30	18.0	17.0	14.0	12.5	9.0	8.0	5.5	3.0	---	---	11.5	9.0
31	17.0	16.0	---	---	9.0	8.5	5.5	4.5	---	---	12.0	8.5
MONTH	18.0	14.0	17.0	10.5	14.0	5.5	11.0	3.0	7.5	3.5	12.0	5.0

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	9.5	14.0	13.0	19.0	15.0	21.0	18.0	23.5	20.0	24.0	22.0
2	13.0	10.0	15.0	13.0	17.5	15.5	20.5	18.0	22.0	18.5	24.0	22.0
3	14.0	10.5	15.0	11.5	16.5	15.0	21.0	18.5	21.0	19.0	25.0	23.0
4	13.0	10.5	13.0	12.0	19.5	16.0	22.0	18.5	22.0	19.0	25.0	22.0
5	14.0	10.0	13.5	12.0	22.0	16.5	23.0	19.0	22.5	21.5	25.0	22.5
6	13.5	11.0	15.0	11.5	18.0	15.5	21.5	19.0	22.5	20.5	24.5	22.5
7	14.0	10.5	15.0	13.0	17.5	16.0	21.5	18.5	23.5	22.5	25.0	22.5
8	13.5	10.5	15.5	14.0	18.0	16.0	21.5	18.5	22.0	20.5	24.5	22.0
9	16.0	12.5	14.0	13.0	18.0	16.0	21.5	18.5	21.5	20.5	24.5	22.0
10	17.5	12.0	14.5	13.0	20.0	16.0	22.0	19.0	22.0	19.5	23.5	22.0
11	13.0	11.5	16.0	13.5	19.0	16.5	21.5	19.0	20.5	19.5	24.0	22.0
12	13.5	11.5	16.0	13.5	20.0	18.0	21.0	19.0	22.0	19.5	24.0	22.5
13	14.5	11.5	16.0	13.5	20.5	17.0	20.0	19.0	22.0	19.5	24.5	22.0
14	14.0	10.0	16.5	15.5	20.5	16.5	21.0	19.0	22.0	20.0	23.0	22.5
15	12.5	10.5	15.5	14.0	21.0	16.5	22.0	20.0	22.5	20.5	22.5	22.0
16	14.5	11.0	14.0	12.0	19.5	17.0	23.5	22.0	24.5	22.0	23.5	22.0
17	16.0	13.0	15.0	12.0	19.0	16.5	24.5	22.5	23.0	20.0	24.5	22.0
18	13.0	13.0	15.0	12.5	20.0	17.0	23.0	19.5	22.5	20.5	24.5	22.5
19	14.0	12.0	15.5	13.0	20.5	18.5	25.0	20.5	23.0	20.5	24.5	22.0
20	13.5	10.5	17.0	14.0	21.0	18.0	23.5	20.0	23.0	20.0	24.0	22.5
21	12.5	10.5	18.0	14.5	20.0	17.5	23.5	20.0	22.5	20.5	24.0	22.5
22	12.5	10.0	16.5	14.0	20.5	17.0	25.0	21.0	23.0	21.0	24.5	22.5
23	13.0	11.0	17.5	14.5	20.0	17.5	26.0	22.5	23.5	21.0	23.5	22.0
24	14.5	12.5	17.5	15.0	19.5	17.0	27.0	20.0	23.5	21.0	23.0	22.5
25	14.0	11.5	17.5	14.5	20.0	17.0	22.5	20.5	24.0	21.0	24.0	22.0
26	13.0	10.5	17.0	14.5	20.0	17.5	22.5	19.0	23.5	21.5	23.0	21.0
27	13.5	10.0	17.0	14.5	20.5	17.5	23.0	21.0	24.5	21.5	23.5	21.5
28	13.5	10.5	19.5	16.5	20.5	18.0	23.0	20.0	25.0	22.5	23.0	21.5
29	14.5	12.0	20.5	15.5	20.0	18.0	22.5	19.0	24.5	22.5	23.0	21.0
30	13.5	12.0	19.0	15.5	21.0	18.0	22.5	19.5	24.0	22.0	22.0	21.0
31	---	---	21.0	16.0	---	---	23.0	20.0	24.0	22.0	---	---
MONTH	17.5	9.5	21.0	11.5	22.0	15.0	27.0	18.0	25.0	18.5	25.0	21.0
YEAR	27.0	3.0										

02383500 COOSAWATTEE RIVER NEAR PINE CHAPEL, GA.

LOCATION.--Lat 34°33'51", long 84°49'59", Gordon County, Hydrologic Unit 03150102, on right bank at downstream side of highway bridge, 1.4 mi (2.3 km) downstream from Sallacoa Creek, 8.7 mi (14.0 km) upstream from confluence with Conasauga River, and 2.4 mi (3.9 km) east of Pine Chapel.

DRAINAGE AREA.--856 mi^2 (2,220 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year. Prior to October 1976, published as Coosawattee River at Pine Chapel, Ga. Monthly discharge only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 616.16 ft (187.81 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Since October 1, 1976, auxiliary water-stage recorder at highway bridge 2.2 mi (3.5 km) downstream. Prior to Feb. 23, 1940, nonrecording gage at current auxiliary gage site and same datum. Feb. 23, 1940 to April 8, 1975, water-stage recorder at current auxiliary gage site and same datum. Feb. 23, 1940 to April 8, 1975 auxiliary water-stage recorder at current gage site. April 9, 1975, to Sept. 30, 1976, water-stage recorder on Oostanaula River at Resaca used as auxiliary gage, due to bridge construction.

REMARKS.--Records good. Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.)

AVERAGE DISCHARGE.--40 years, 1,489 ft^3/s (42.2 m^3/s), 23.62 in/yr (599.9 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,200 ft^3/s (1,140 m^3/s) Mar. 30, 1951, gage height, 34.2 ft (10.42 m) at current base gage, 30.8 ft (9.39 m) at current auxiliary gage; minimum daily, 188 ft^3/s (5.32 m^3/s) Sept. 11, 1976, minimum unregulated daily discharge, 220 ft^3/s (6.23 m^3/s) Oct. 26, 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 8, 1938, reached a stage of 30.0 ft (9.14 m) from gage reading at current auxiliary gage, discharge 34,000 ft^3/s (963 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,770 ft^3/s (277 m^3/s) Jan. 26, maximum gage height, 23.33 ft (7.111 m) Jan. 26 (backwater from Conasauga River); minimum daily discharge, 248 ft^3/s (7.02 m^3/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1240	1420	1390	1500	3300	1410	993	2520	613	553	446	475
2	1220	1310	1410	1110	3440	1720	1020	2700	625	538	468	452
3	2120	807	1350	2080	2820	2560	1780	1690	1160	519	491	416
4	1670	1010	1130	1340	2430	2510	1770	2070	1280	492	985	380
5	620	4000	912	1160	1800	2260	896	2890	1060	444	1300	353
6	954	6200	1400	5040	1170	1080	665	1730	797	500	1010	384
7	1000	3870	3040	2140	2430	1760	750	1400	841	516	992	362
8	556	1970	2940	3330	1650	1790	1590	2520	1890	526	1900	432
9	3230	1390	1230	7930	1790	2470	1440	5010	2570	361	2050	471
10	2520	1310	1970	4120	1730	5750	1210	4160	1600	351	1370	468
11	2860	2160	1590	2170	1510	4560	1150	2900	1300	363	1980	434
12	1130	2710	1120	2830	1670	3180	1450	2140	1020	370	534	391
13	612	2860	1090	3500	1420	2990	1420	1680	1250	374	805	365
14	524	2790	1050	3380	2230	3170	1430	1150	1510	527	1790	441
15	506	2910	1710	3250	1640	2950	1140	727	654	907	729	437
16	902	2930	1280	3110	1470	2290	1060	1600	684	1530	1000	402
17	1050	4160	1030	3300	789	2020	1210	1510	715	1120	575	447
18	470	3670	2160	3170	765	1410	1470	2200	688	437	896	466
19	464	3520	2360	3870	1140	1560	3960	2190	1020	440	559	542
20	516	3270	1940	5290	774	2180	3720	1630	1420	897	483	1220
21	796	3230	1770	4810	753	1990	2050	827	1110	602	462	402
22	462	3420	2110	3830	884	1410	1140	1550	555	356	486	364
23	654	3400	1830	3540	1490	1350	1460	924	624	346	494	351
24	737	3220	881	2630	1380	1370	1320	1060	630	351	539	318
25	1220	2640	3490	6030	953	1580	1490	678	638	742	525	283
26	3990	2420	3020	9460	784	1540	1950	1180	628	643	510	300
27	2700	1020	2420	7110	1770	1990	1830	1620	638	409	642	298
28	881	1120	3330	5000	1340	2070	1530	1500	993	417	643	269
29	874	2320	1940	4670	---	1630	1240	1220	1840	412	612	248
30	628	2530	1430	5040	---	948	1060	1380	949	416	484	263
31	531	---	1930	4620	---	976	---	719	---	425	493	---
TOTAL	37637	79587	56253	120360	45322	66474	45194	57075	31302	16884	26253	12434
MEAN	1214	2653	1815	3883	1619	2144	1506	1841	1043	545	847	414
MAX	3990	6200	3490	9460	3440	5750	3960	5010	2570	1530	2050	1220
MIN	462	807	881	1110	753	948	665	678	555	346	446	248

CAL YR 1977 TOTAL 666983 MEAN 1827 MAX 13700 MIN 265 MEAN† 1827 CFSM† 2.13 IN† 28.91
WTR YR 1978 TOTAL 594775 MEAN 1630 MAX 9460 MIN 248 MEAN† 1629 CFSM† 1.90 IN† 25.79

† Adjusted for change in contents in Carters Lake and Carters re-regulation dam.

02383500 COOSAWATTEE RIVER NEAR PINE CHAPEL, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: October 1974 to current year.
EXTREMES FOR PERIOD OF DAILY RECORD.—
WATER TEMPERATURES: Maximum, 26.0°C July 24, 25, 1978; minimum, 0.0°C Jan. 22, 23, 30, Feb. 1, 1977.
EXTREMES FOR CURRENT YEAR.—
WATER TEMPERATURES: Maximum, 26.0°C July 24, 25; minimum, 2.0°C Jan. 30.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.5	21.0	---	---	14.5	13.0	9.0	8.5	4.0	3.0	7.0	7.0
2	22.5	21.5	---	---	13.5	13.0	8.0	6.0	4.5	3.5	7.0	6.5
3	21.5	21.0	---	---	13.0	12.5	8.0	6.5	5.0	4.5	6.5	6.5
4	21.0	19.0	---	---	13.0	12.0	7.5	6.5	4.5	4.0	6.5	6.0
5	19.5	17.5	---	---	14.5	13.0	8.0	6.0	5.0	4.5	6.5	6.0
6	21.0	18.5	---	---	14.5	12.5	8.0	7.5	4.5	3.0	8.0	6.5
7	20.5	17.0	17.5	16.5	12.5	11.5	8.0	7.5	3.5	3.5	8.0	7.5
8	20.0	19.0	17.5	17.0	12.0	11.0	11.0	8.0	4.0	3.0	8.5	7.5
9	19.5	17.0	17.0	17.0	11.0	10.0	10.5	4.5	4.5	3.5	8.5	8.0
10	16.5	16.0	17.5	16.0	9.5	8.5	4.5	3.0	5.0	4.0	10.0	8.5
11	16.0	15.5	16.0	15.0	8.5	6.5	4.5	3.0	5.5	4.5	9.5	8.5
12	16.0	15.0	15.0	15.0	8.5	6.0	5.0	4.0	5.0	4.5	11.0	9.5
13	17.0	15.5	15.0	14.0	11.0	9.0	5.5	3.0	6.5	5.0	11.5	10.0
14	16.5	15.5	15.0	14.0	12.5	11.0	6.0	5.0	6.0	5.5	14.0	10.0
15	17.0	15.5	15.0	13.5	12.0	12.0	5.5	5.0	6.0	5.0	13.0	11.5
16	17.0	16.5	15.5	10.5	12.0	11.0	5.5	3.0	7.0	6.0	11.5	10.0
17	17.0	16.5	15.5	13.5	12.0	11.5	5.5	3.0	8.0	7.0	10.0	8.5
18	17.5	16.5	15.5	14.5	12.0	11.5	5.5	4.5	8.0	7.0	9.5	8.0
19	17.5	16.5	15.0	14.5	12.0	10.5	5.5	5.0	7.0	6.0	10.0	8.0
20	17.5	16.0	15.0	14.0	12.0	12.0	5.5	4.5	6.5	5.5	11.5	9.0
21	18.0	16.5	15.5	12.5	11.5	10.0	4.5	4.0	7.0	5.5	11.0	10.0
22	18.0	17.5	15.5	15.5	11.0	10.0	4.5	4.0	5.5	4.5	12.0	10.5
23	18.0	17.5	16.0	15.5	10.0	9.5	5.0	3.5	5.5	5.0	12.5	10.0
24	18.0	17.0	16.0	15.5	10.5	9.0	5.0	5.0	6.5	5.0	12.5	10.5
25	---	---	16.0	15.0	11.0	9.5	6.0	5.0	7.5	5.5	12.5	11.5
26	---	---	15.0	12.0	9.5	6.5	6.0	4.0	7.5	6.5	12.5	11.0
27	---	---	12.5	11.0	9.0	7.0	4.0	3.0	7.0	6.0	11.0	9.0
28	---	---	12.5	12.0	9.0	5.5	4.0	3.5	7.0	6.5	10.0	8.0
29	---	---	14.0	12.5	9.0	7.0	4.0	3.0	---	---	12.0	9.0
30	---	---	14.0	13.0	8.5	7.0	4.0	2.0	---	---	12.5	10.5
31	---	---	---	---	9.0	8.0	4.0	3.5	---	---	13.0	10.5
MONTH	22.5	15.0	17.5	10.5	14.5	5.5	11.0	2.0	8.0	3.0	14.0	6.0

02383500 COOSAWATTEE RIVER NEAR PINE CHAPEL, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13.5	11.0	14.5	13.5	20.5	17.5	21.5	20.0	23.5	22.0	23.0	22.0
2	14.0	11.5	15.0	13.5	18.5	17.5	21.5	20.5	23.0	21.5	22.5	22.0
3	14.5	12.0	14.5	12.0	17.5	15.5	22.0	20.5	22.0	21.0	24.0	22.5
4	14.0	11.5	13.5	12.0	19.0	16.0	22.0	20.5	22.0	20.0	23.5	22.0
5	15.0	12.0	13.5	12.5	21.5	18.5	22.5	21.0	22.5	22.0	23.5	22.5
6	15.0	13.5	15.0	12.5	21.0	16.5	22.5	21.0	22.5	21.5	23.5	23.0
7	15.0	13.0	15.5	14.0	18.0	17.0	22.0	21.0	23.0	22.5	23.5	22.5
8	14.0	11.5	16.5	15.5	18.0	17.5	22.0	20.5	23.0	21.5	23.0	22.5
9	16.5	13.0	17.0	15.0	18.0	17.5	22.5	21.5	22.0	21.5	23.0	22.5
10	18.0	15.5	16.5	15.0	19.5	16.5	23.0	21.5	22.0	20.5	23.0	22.5
11	15.0	13.0	16.0	14.0	19.5	17.0	22.5	22.0	21.0	20.0	23.0	22.5
12	14.0	12.5	16.0	14.5	20.0	18.5	22.0	21.5	22.0	21.0	23.0	22.5
13	14.5	13.5	16.5	15.0	20.0	19.0	22.0	21.0	22.0	21.0	23.5	22.5
14	14.5	11.0	16.5	15.5	20.0	16.5	21.0	20.5	22.0	20.5	23.0	22.5
15	13.5	11.0	16.0	15.0	20.0	18.0	22.0	21.0	23.0	22.0	22.5	22.0
16	14.5	11.5	15.0	12.5	20.5	18.0	23.5	22.0	24.0	22.5	22.5	22.0
17	17.0	14.0	15.0	12.5	19.5	18.0	24.0	23.0	24.0	22.5	23.5	22.0
18	14.5	13.5	15.0	13.0	20.0	18.0	23.5	23.0	23.0	21.5	23.5	23.0
19	15.0	14.0	16.0	13.5	21.0	18.5	24.5	22.5	23.5	22.0	24.0	23.0
20	14.0	12.0	17.5	14.5	21.0	19.0	24.5	21.0	23.0	22.5	24.0	23.0
21	13.0	11.0	18.0	17.0	20.0	18.0	23.5	20.5	23.0	22.5	23.5	23.0
22	12.5	11.0	17.5	15.0	20.5	19.5	24.0	23.0	22.5	22.0	23.5	23.5
23	13.0	11.0	18.0	15.5	20.5	19.5	25.5	24.0	23.0	22.5	23.5	23.0
24	14.5	13.0	18.0	16.5	20.5	19.0	26.0	24.5	23.[illegible]	22.0	23.0	22.5
25	14.5	13.0	18.0	17.5	20.5	19.0	26.0	21.0	23.0	22.0	23.0	22.0
26	14.0	11.5	18.0	15.5	20.5	19.0	22.5	21.0	23.0	22.0	23.0	22.0
27	13.5	11.0	17.0	15.5	21.0	19.0	22.5	22.0	23.0	22.0	22.5	21.5
28	13.5	11.5	19.0	17.0	21.0	19.5	23.0	22.5	23.5	22.5	22.0	21.5
29	14.5	12.5	20.5	18.5	20.5	19.0	23.0	22.0	23.5	22.5	22.5	21.5
30	14.5	12.5	20.0	16.5	21.5	19.5	22.5	22.0	23.0	22.5	22.0	21.0
31	---	---	20.0	16.5	---	---	23.0	22.0	23.0	22.5	---	---
MONTH	18.0	11.0	20.5	12.0	21.5	15.5	26.0	20.0	24.0	20.0	24.0	21.0
YEAR	26.0	2.0										

02383540 COOSAWATTEE RIVER NEAR CALHOUN, GA.

LOCATION.--Lat 34°32'28", long 84°54'03", Gordon County, Hydrologic Unit 03150102, at bridge on State Highway 225, 0.2 mi (0.3 km) upstream from confluence with Conasauga River, and 4.0 mi (6.4 km) northeast of Calhoun.

DRAINAGE AREA.--864 mi^2 (2,240 km^2).

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Carters Lake and Carters re-regulation reservoir. (See "Lakes and Reservoirs in Mobile River Basin", stations 02381400, 02382400.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 25...	1130	500	7.3	16.5	16.0	8.7
NOV 28...	1255	813	7.3	13.0	13.0	9.7
DEC 27...	1145	2300	7.1	2.5	6.5	10.6
JAN 24...	1500	2050	6.7	9.0	6.0	11.4
FEB 21...	0800	755	7.4	4.0	6.0	11.0
MAR 27...	1145	2000	7.1	9.0	10.0	9.8
APR 26...	0830	1880	7.0	10.0	13.0	9.8
JUN 26...	0910	641	7.2	28.5	21.0	8.6
JUL 24...	1420	336	7.5	32.5	27.0	--
AUG 29...	1800	566	7.3	30.0	26.0	8.0
SEP 25...	0945	297	7.4	22.0	22.0	7.4

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 25...	82	6	1.2	930	36	--	.18	<.02	<.02	2.0
NOV 28...	75	10	.7	930	31	--	.24	<.02	.02	<1.0
DEC 27...	59	27	.5	930	24	--	.23	<.02	.04	2.0
JAN 24...	61	14	.3	70	26	--	.30	<.02	.02	1.0
FEB 21...	86	7	.4	40	41	--	.30	<.02	<.02	<1.0
MAR 27...	52	12	.6	30	21	--	.20	<.02	<.02	1.0
APR 26...	68	27	.4	930	28	--	.20	<.02	.04	4.0
JUN 26...	65	10	1.2	930	27	--	.20	.05	.02	<1.0
JUL 24...	85	8	1.5	430	38	35	.24	.04	.02	2.0
AUG 29...	55	5	.4	90	60	21	.14	<.02	<.02	1.0
SEP 25...	67	3	.2	930	24	28	.20	<.02	.02	2.0

02384748 CONASAUGA RIVER NEAR DALTON, GA.

LOCATION.--Lat 34°47'20", long 84°52'30", Whitfield-Murray County line, Hydrologic Unit 03150101, at Dalton water works intake, 0.4 mi (0.6 km) upstream from U.S. Highway 76, and 5.5 mi (8.8 km) east of Dalton.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT						
26...	0750	2970	6.9	16.0	14.5	7.4
NOV						
29...	0855	727	7.5	12.0	9.5	9.2
DEC						
27...	1530	643	7.1	5.5	4.5	11.0
JAN						
25...	1030	2190	7.8	9.0	5.5	11.8
FEB						
21...	1300	308	7.7	.0	6.0	11.3
MAR						
28...	0845	405	7.6	7.0	9.5	10.7
APR						
26...	1130	330	7.2	15.0	14.5	8.0
MAY						
30...	1400	108	7.5	31.0	22.0	7.4
JUN						
26...	1255	108	7.8	33.0	26.0	6.8
JUL						
24...	1040	170	7.4	31.5	26.5	--
AUG						
29...	1515	2.0	7.6	33.5	26.0	6.6
SEP						
25...	1345	30	7.2	28.5	23.0	6.6

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, CONFIRMED (MPN)	COLIFORM, FECAL, EC BROTH (MPN)	HARDNESS (MG/L AS CACO3)
OCT							
26...	79	93	38	2.2	230000	43000	36
NOV							
29...	108	15	11	.7	23000	1500	51
DEC							
27...	80	11	6	.2	15000	390	38
JAN							
25...	88	72	16	1.3	23000	930	40
FEB							
21...	115	6	7	.3	140	<35	52
MAR							
28...	108	10	4	.4	2300	230	52
APR							
26...	99	12	7	.8	--	230	44
MAY							
30...	107	22	<5	.5	1400	230	55
JUN							
26...	126	20	6	.8	4300	430	64
JUL							
24...	106	189	--	2.0	43000	2300	50
AUG							
29...	143	23	--	.3	1500	90	93
SEP							
25...	138	22	--	.8	9300	70	74

02384748 CONASAUGA RIVER NEAR DALTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALKALINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 26...	--	95	.12	<.02	.60	.19	13
NOV 29...	--	18	.24	<.02	.14	.02	2.0
DEC 27...	--	6	.18	<.02	.20	<.02	2.0
JAN 25...	--	36	.30	.05	.45	.11	4.0
FEB 21...	--	11	.28	<.02	<.10	<.02	<1.0
MAR 28...	--	8	.26	<.02	.17	.02	2.0
APR 26...	--	23	.21	.03	<.10	.02	4.0
MAY 30...	--	31	.27	<.02	<.10	.04	4.0
JUN 26...	--	25	.20	.05	.10	.04	<1.0
JUL 24...	48	156	.33	.04	--	.16	6.0
AUG 29...	66	28	.23	.02	--	.04	2.0
SEP 25...	69	38	.25	<.02	--	.03	3.0

02385800 HOLLY CREEK NEAR CHATSWORTH, GA.

LOCATION.--Lat 34°43'00", long 84°46'12", Murray County, Hydrologic Unit 03150101, on right bank 100 ft (30 m) upstream from bridge on county road, 3 mi (4.8 km) upstream from Rock Creek, and 3.3 mi (5.3 km) south of Chatsworth.
DRAINAGE AREA.--64.9 mi^2 (168 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1960 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 690 ft (210 m), from topographic map.
REMARKS.--Records fair. Records of chemical analyses for the water years 1968-74 are published in reports of the Geological Survey.
AVERAGE DISCHARGE.--18 years, 120 ft^3/s (3.39 m^3/s), 25.11 in/yr (637.8 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,040 ft^3/s (171 m^3/s) Mar. 15, 1964, gage height, 11.37 ft (3.466 m); minimum, 2.0 ft^3/s (57 l/s) Sept. 2, 1962.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,500 ft^3/s (42.5 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 2	1300	1680	47.6	8.48	2.585
Nov. 6	0100	1990	56.4	8.73	2.661
Jan. 9	0500	*3780	107	10.11	3.082
Jan. 26	1200	2070	58.6	8.91	2.716
May 9	0800	1750	49.6	8.68	2.646

Minimum discharge, 3.0 ft^3/s (0.085 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	61	158	109	191	67	76	672	38	15	12	7.3
2	1130	56	135	98	185	64	71	384	36	14	10	6.9
3	477	55	119	88	171	147	68	194	44	14	9.1	6.6
4	122	162	112	82	156	120	64	161	39	14	31	6.8
5	81	1310	116	78	147	93	63	132	33	13	30	6.5
6	61	1900	119	118	136	84	60	104	32	12	40	5.8
7	51	1530	101	134	119	78	58	117	40	12	40	5.4
8	77	553	92	752	127	124	55	366	167	11	23	5.0
9	434	249	90	2560	117	371	53	1310	113	9.7	74	4.7
10	192	192	82	567	111	1200	51	383	59	11	65	4.4
11	113	145	76	287	106	523	91	198	45	11	28	4.8
12	84	122	73	215	101	275	125	154	39	9.4	20	5.5
13	65	106	70	196	125	194	82	157	92	9.3	23	8.2
14	56	95	95	174	114	470	66	124	42	12	18	7.3
15	50	88	106	147	98	392	59	117	35	25	15	7.0
16	45	85	90	130	93	235	56	105	32	28	15	7.8
17	42	348	93	482	88	179	53	93	30	15	13	6.9
18	39	200	187	591	84	152	114	83	28	12	12	6.9
19	36	136	143	404	81	133	203	74	27	11	10	5.7
20	33	112	119	655	75	121	113	67	29	11	9.5	4.9
21	31	105	98	412	74	114	89	62	27	9.7	9.3	4.4
22	29	106	86	262	72	140	73	58	25	8.5	8.8	4.2
23	28	138	77	208	68	111	65	64	22	8.4	8.4	4.3
24	27	147	88	203	67	104	60	77	21	13	7.9	3.6
25	211	127	558	842	65	99	69	62	20	23	7.5	4.6
26	898	110	247	1710	63	109	222	52	20	26	9.0	4.6
27	195	95	161	719	60	105	268	47	20	13	10	4.5
28	124	123	125	410	63	96	149	51	18	11	9.0	4.0
29	96	145	107	295	---	90	110	53	17	9.5	7.8	3.6
30	79	145	124	239	---	84	143	45	16	8.7	7.6	3.5
31	69	---	124	210	---	79	---	42	---	8.8	7.3	---
TOTAL	5032	8746	3971	13377	2957	6153	2829	5608	1206	409.0	590.2	165.7
MEAN	162	292	128	432	106	198	94.3	181	40.2	13.2	19.0	5.52
MAX	1130	1900	558	2560	191	1200	268	1310	167	28	74	8.2
MIN	27	55	70	78	60	64	51	42	16	8.4	7.3	3.5
CFSM	2.50	4.50	1.97	6.66	1.63	3.05	1.45	2.79	.62	.20	.29	.09
IN.	2.88	5.01	2.28	7.67	1.69	3.53	1.62	3.21	.69	.23	.34	.09

CAL YR 1977 TOTAL 55524.1 MEAN 152 MAX 3370 MIN 7.3 CFSM 2.34 IN 31.83
WTR YR 1978 TOTAL 51043.9 MEAN 140 MAX 2560 MIN 3.5 CFSM 2.16 IN 29.26

02383800 HOLLY CREEK NEAR CHATSWORTH, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to June 1974, March 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR							
14...	1250	615	14.5	200	358	594	--
APR							
26...	1140	197	7.5	55	125	66	94
JUL							
18...	1445	13	24.0	6.0	22	.77	100

02387000 CONASAUGA RIVER AT TILTON, GA.

LOCATION.--Lat 34°40'00", long 84°55'42", Whitfield-Murray County line, Hydrologic Unit 03150101, on left bank 250 ft (76 m) downstream from highway bridge, 0.2 mi (0.3 km) downstream from Swamp Creek, 0.5 mi (0.8 km) northeast of Tilton, and 12 mi (19.3 km) upstream from confluence with Coosawattee River.
DRAINAGE AREA.--682 mi² (1,770 km²).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1937 to current year.
GAGE.--Water-stage recorder. Datum of gage is 622.28 ft (189.67 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Aug. 24, 1940, nonrecording gage at site 150 ft (46 m) upstream at same datum. Water-stage recorder on Oostanaula River at Resaca used as auxiliary gage since 1961.
REMARKS.--Records good.
AVERAGE DISCHARGE.--41 years, 1,205 ft³/s (34.1 m³/s), 23.99 in/yr (609.3 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 29,000 ft³/s (821 m³/s) Mar. 30, 1951; maximum gage height, 30.2 ft (9.20 m) Mar. 30, 1951, backwater from Coosawattee River; minimum discharge, 50 ft³/s (1.42 m³/s) Nov. 1, 1974, caused by construction upstream; minimum unregulated discharge, 68 ft³/s (1.93 m³/s) Oct. 24, 25, 1954.
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 10,700 ft³/s (303 m³/s) Nov. 9, gage height, 19.40 ft (5.913 m); minimum, 54 ft³/s (1.53 m³/s) Sept. 12.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	897	800	2190	1480	1670	539	745	3000	431	196	212	134
2	2870	700	1970	1320	1530	579	718	3800	407	189	155	113
3	3850	640	1670	1140	1450	931	685	2280	427	186	139	115
4	1980	1500	1450	1010	1290	1890	642	1520	414	185	136	112
5	1040	3500	1710	944	1150	1270	615	1430	397	185	169	116
6	820	8000	2110	1050	1060	922	602	1210	350	177	305	123
7	682	8800	1840	1630	953	813	574	1080	336	166	475	105
8	900	10300	1370	2580	829	843	540	2520	1000	166	367	101
9	2750	10400	1210	6360	857	2210	516	6070	2190	161	413	91
10	2660	6700	1140	8180	861	6150	505	6950	1170	258	584	88
11	1490	2150	1010	9070	820	7180	529	6260	746	218	559	134
12	1010	1610	927	6450	771	6970	799	2000	601	184	351	77
13	798	1340	893	2500	826	3310	850	1500	1780	158	295	92
14	664	1230	929	2200	999	2980	659	1370	1470	160	301	79
15	578	1100	1140	1750	887	4750	568	1130	780	218	259	122
16	517	1030	1110	1740	753	4950	519	1030	515	260	214	120
17	472	2150	993	2380	702	2520	500	940	436	412	197	110
18	434	3760	1330	2600	671	1850	622	846	403	253	182	118
19	393	2650	1780	2500	650	1550	1380	769	363	178	164	109
20	334	1460	1460	4400	625	1350	1290	700	331	156	154	99
21	333	1380	1220	5000	590	1210	894	647	315	146	154	96
22	315	1680	1040	4000	584	1270	733	604	302	138	148	89
23	297	2980	926	3000	561	1270	646	754	282	139	138	166
24	292	3390	893	2400	541	1060	596	1010	260	217	137	130
25	1530	2490	2920	3930	540	995	636	723	256	383	129	108
26	5580	1860	3770	6520	518	1040	742	929	253	606	120	107
27	6000	1510	2240	7980	498	1120	1560	669	331	302	151	87
28	3500	1530	1580	10000	487	1020	1730	533	274	200	166	88
29	2000	2100	1280	6760	---	907	1130	608	240	159	155	88
30	1400	2240	1230	2770	---	840	920	556	211	144	148	78
31	1000	---	1600	1810	---	788	---	480	---	161	166	---
TOTAL	47386	90980	46931	115454	23673	65077	23445	53918	17271	6661	7243	3195
MEAN	1529	3033	1514	3724	845	2099	782	1739	576	215	234	107
MAX	6000	10400	3770	10000	1670	7180	1730	6950	2190	606	584	166
MIN	292	640	893	944	487	539	500	480	211	138	120	77
CFSM	2.24	4.45	2.22	5.46	1.24	3.08	1.15	2.55	.85	.32	.34	.16
IN.	2.58	4.96	2.56	6.30	1.29	3.55	1.28	2.94	.94	.36	.40	.17

CAL YR 1977 TOTAL 620848 MEAN 1701 MAX 17800 MIN 92 CFSM 2.49 IN 33.86
WTR YR 1978 TOTAL 501234 MEAN 1373 MAX 10400 MIN 77 CFSM 2.01 IN 27.34

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.
PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1975 to current year.
pH: October 1975 to current year.
WATER TEMPERATURES: October 1975 to current year.
DISSOLVED OXYGEN: October 1975 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.
EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 423 micromhos Sept. 23, 1978; minimum, 45 micromhos Jan. 28, 1976.
pH: Maximum recorded, 8.7 units Feb. 28, Mar. 1, 1977; minimum recorded, 6.3 units July 5, 6, 1976.
WATER TEMPERATURE: Maximum, 31.5°C July 16, 1977; minimum recorded, 0.5°C Feb. 1, 2, 1977, Jan. 11, 20-23, 1978.
DISSOLVED OXYGEN: Maximum recorded, 13.6 mg/L Jan. 31, 1977; minimum recorded, 0.6 mg/L July 1, 1977.
EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 423 micromhos Sept. 23; minimum, 55 micromhos May 10.
pH: Maximum recorded, 7.4 units Oct. 16-18, Dec. 12, Mar. 6, 7, 27-30, Apr. 23; minimum recorded, 6.4 units May 10, 11.
WATER TEMPERATURE: Maximum, 30.5°C July 23; minimum recorded, 0.5°C Jan. 11, 20-23.
DISSOLVED OXYGEN: Maximum recorded, 13.4 mg/L Jan. 30, 31; minimum recorded, 0.8 mg/L Aug. 18, 19.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 25...	1345	628	7.3	16.0	14.0	8.2
NOV 28...	1700	1640	6.8	9.0	9.0	10.0
DEC 27...	1400	2050	7.1	7.5	5.0	11.4
JAN 25...	1200	3780	7.3	9.0	6.0	12.0
FEB 21...	1100	584	7.6	3.0	6.5	11.5
MAR 27...	1330	1140	7.5	10.0	11.5	--
APR 26...	1030	696	7.0	11.0	15.0	6.6
MAY 30...	1220	556	7.2	28.0	23.0	4.4
JUN 26...	1200	238	7.4	31.0	26.5	3.6
JUL 24...	1215	182	7.4	31.0	28.0	3.2
SEP 06...	1500	119	7.5	30.0	27.0	7.7

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)
OCT 25...	173	66	29	3.5	9300	74
NOV 28...	130	12	5	.9	2300	59
DEC 27...	92	22	14	1.0	930	44
JAN 25...	119	58	16	1.7	4300	50
FEB 21...	168	9	15	1.6	<30	67
MAR 27...	136	21	7	1.2	540	64
APR 26...	161	25	23	2.6	2300	64
MAY 30...	164	32	19	5.0	4300	58
JUN 26...	196	8	13	1.7	430	84
JUL 24...	215	12	31	4.0	430	88
SEP 06...	262	26	19	2.0	430	--

DATE	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 25...	--	148	.49	.02	.68	.62	12
NOV 28...	--	9	<.53	<.02	.20	.13	3.0
DEC 27...	--	17	.33	.03	.27	.11	5.0
JAN 25...	--	48	.33	.06	.48	.22	4.0
FEB 21...	--	6	.21	.54	.90	.23	3.5
MAR 27...	--	27	.27	.10	.39	.11	2.5
APR 26...	--	29	.45	.51	.90	.29	8.0
MAY 30...	--	28	1.0	.37	1.0	.20	8.0
JUN 26...	--	<1	.70	.17	.60	.31	1.0
JUL 24...	85	12	.68	.51	1.3	1.4	8.0
SEP 06...	90	47	2.3	<.02	.74	.90	10

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	132	124	158	143	144	130	136	134	150	133	177	167
2	134	100	167	157	131	124	138	136	142	135	176	166
3	96	84	183	167	125	110	144	138	---	---	184	166
4	121	91	180	135	115	110	150	145	---	---	164	148
5	123	118	140	99	140	114	156	152	---	---	147	126
6	135	127	98	72	141	118	171	156	127	122	135	123
7	148	139	72	65	136	125	171	142	136	126	149	135
8	156	115	70	64	128	120	144	97	148	136	160	149
9	128	108	87	70	133	126	99	72	149	147	170	123
10	113	89	109	89	139	125	71	62	147	143	119	87
11	107	92	118	113	136	129	80	62	145	141	86	76
12	119	111	119	115	144	131	107	82	142	136	94	78
13	130	123	119	112	156	140	115	107	143	132	112	92
14	139	137	124	114	170	149	118	114	142	138	125	110
15	146	138	138	124	160	150	123	112	151	141	107	85
16	146	140	148	134	151	145	128	119	153	150	99	85
17	142	138	---	---	145	139	139	122	157	153	104	96
18	161	148	---	---	144	131	122	98	157	149	109	104
19	176	161	---	---	138	125	98	93	148	140	121	109
20	194	171	---	---	138	129	103	94	146	138	---	---
21	202	182	---	---	134	130	109	99	157	147	---	---
22	201	192	---	---	140	136	108	102	163	157	---	---
23	194	173	---	---	142	135	106	94	179	163	---	---
24	173	166	---	---	137	118	103	98	177	170	---	---
25	---	---	---	---	134	105	101	90	175	166	---	---
26	---	---	---	---	108	96	---	---	167	161	---	---
27	75	68	---	---	105	98	83	61	162	154	137	128
28	102	80	139	124	117	106	87	74	171	161	145	139
29	115	106	142	132	128	118	105	86	---	---	150	145
30	123	119	142	131	136	128	123	106	---	---	156	150
31	143	124	---	---	135	131	136	123	---	---	160	150
MONTH	202	68	183	64	170	96	171	61	179	122	184	76

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	155	142	123	100	210	190	256	236	279	194	374	339
2	141	135	106	97	210	192	235	213	273	242	359	348
3	138	125	109	96	221	195	210	197	299	275	358	342
4	148	137	118	107	195	180	222	193	311	296	342	286
5	145	135	141	117	184	171	212	202	309	277	297	257
6	142	131	143	133	202	184	223	211	282	231	296	256
7	142	130	134	124	225	195	215	200	227	167	352	302
8	141	135	150	77	224	163	218	196	192	166	396	348
9	135	128	99	69	169	135	217	206	217	183	421	381
10	131	122	67	55	143	134	234	204	227	167	421	394
11	141	128	97	65	149	137	248	201	180	158	321	296
12	140	127	116	98	164	130	240	204	196	179	295	274
13	136	129	121	115	169	127	285	241	197	187	387	272
14	140	123	119	115	173	155	296	284	186	172	401	382
15	147	134	123	111	177	171	289	238	223	183	399	384
16	147	138	131	124	183	173	253	229	247	220	412	373
17	157	140	137	130	193	181	223	184	284	232	360	329
18	179	159	141	132	181	171	213	186	306	282	317	294
19	191	136	149	140	188	171	251	214	327	291	295	275
20	153	134	154	144	210	188	276	247	308	276	353	295
21	154	136	157	143	220	205	290	265	280	236	374	336
22	135	128	163	142	219	208	295	275	266	228	410	375
23	129	121	185	112	230	216	312	287	314	267	423	384
24	132	118	172	142	234	222	270	227	344	304	406	307
25	156	133	174	153	227	215	243	221	356	324	316	298
26	165	141	212	169	214	187	228	174	353	337	307	273
27	154	127	174	155	249	189	223	189	345	322	328	279
28	127	97	165	153	252	206	269	227	317	263	379	334
29	103	97	184	162	280	243	294	268	295	253	419	334
30	104	99	174	159	269	251	283	271	364	298	421	404
31	---	---	195	169	---	---	269	197	382	343	---	---
MONTH	191	97	212	55	280	127	312	174	382	158	423	256

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

PH (UNITS), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.3	7.2	7.1	7.0	7.1	7.0	7.2	7.2	---	---	7.1	7.1
2	7.3	6.9	7.1	7.0	7.0	7.0	7.3	7.2	---	---	7.2	7.2
3	7.0	6.9	7.3	7.0	7.1	7.0	7.3	7.2	---	---	7.2	7.1
4	7.1	6.9	7.0	6.8	7.1	7.1	7.3	7.2	---	---	7.3	7.2
5	7.2	7.2	6.9	6.7	7.1	7.1	7.2	7.2	---	---	7.3	7.2
6	7.3	7.2	6.8	6.7	7.1	7.1	7.2	7.1	---	---	7.4	7.3
7	7.3	7.2	6.7	6.7	7.3	7.1	7.2	7.1	---	---	7.4	7.3
8	7.3	7.1	6.8	6.7	7.2	7.2	7.1	7.0	---	---	7.3	7.3
9	7.2	7.1	6.7	6.6	7.3	7.2	6.9	6.6	---	---	7.3	7.2
10	7.2	7.1	6.8	6.6	7.3	7.2	6.6	6.6	---	---	7.1	6.9
11	7.2	7.1	7.0	6.7	7.3	7.2	6.7	6.6	---	---	6.9	6.8
12	7.2	7.1	7.1	6.9	7.4	7.2	6.9	6.6	---	---	6.9	6.8
13	7.3	7.2	7.1	7.0	7.3	7.2	7.0	6.9	---	---	7.1	6.8
14	7.3	7.2	7.0	6.9	7.3	7.1	7.1	7.0	---	---	7.1	7.0
15	7.3	7.3	7.0	6.9	7.2	7.1	7.1	7.0	---	---	7.1	6.9
16	7.4	7.3	6.9	6.8	7.2	7.1	7.3	7.0	---	---	6.9	6.9
17	7.4	7.4	---	---	7.1	7.1	7.3	7.1	---	---	7.1	6.9
18	7.4	7.3	---	---	7.2	7.1	7.2	7.0	---	---	7.2	7.1
19	---	---	---	---	7.2	7.1	7.0	6.9	---	---	7.3	7.0
20	---	---	---	---	7.2	7.1	---	---	---	---	---	---
21	---	---	---	---	7.2	7.1	---	---	7.3	7.0	---	---
22	---	---	---	---	7.2	7.1	7.1	6.7	7.1	7.1	---	---
23	---	---	---	---	7.2	7.2	7.1	6.5	7.1	7.1	---	---
24	---	---	---	---	7.2	7.0	6.9	6.5	7.1	7.1	---	---
25	---	---	---	---	7.1	7.0	7.1	6.8	7.1	7.1	---	---
26	---	---	---	---	7.0	7.0	---	---	7.3	7.1	---	---
27	7.2	6.9	---	---	7.1	7.0	6.7	6.5	7.3	7.2	7.4	7.3
28	7.1	6.7	7.3	7.1	7.2	7.1	6.9	6.7	7.3	7.1	7.4	7.4
29	7.2	6.8	7.3	7.1	7.2	7.1	6.9	6.9	---	---	7.4	7.3
30	7.0	6.9	7.1	7.1	7.2	7.1	7.1	6.9	---	---	7.4	7.3
31	7.1	6.6	---	---	7.2	7.2	---	---	---	---	7.3	7.3
MONTH	7.4	6.6	7.3	6.6	7.4	7.0	7.3	6.5	7.3	7.0	7.4	6.8

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.3	7.3	7.0	6.9	6.7	6.7	6.8	6.8	6.8	6.7	6.6	6.6
2	7.4	7.3	6.9	6.8	6.7	6.7	6.9	6.8	6.8	6.7	6.7	6.6
3	7.4	7.3	6.9	6.8	6.8	6.7	7.0	6.9	6.8	6.7	6.6	6.6
4	7.3	7.2	6.9	6.9	6.8	6.7	7.0	6.9	6.8	6.7	6.7	6.6
5	7.2	7.2	7.0	6.9	6.8	6.8	7.1	7.0	6.8	6.8	7.0	6.7
6	7.2	7.0	7.0	7.0	6.8	6.7	7.1	6.9	6.8	6.8	7.0	6.7
7	7.1	7.0	7.0	6.9	6.8	6.7	7.2	7.0	6.9	6.8	6.7	6.6
8	7.1	7.0	6.9	6.6	6.8	6.7	7.2	7.0	6.8	6.7	6.7	6.6
9	7.1	7.0	6.7	6.5	6.9	6.8	7.3	7.0	6.8	6.6	6.7	6.6
10	7.2	7.1	6.5	6.4	6.8	6.7	7.1	6.9	6.8	6.7	6.7	6.7
11	7.1	7.0	6.6	6.4	6.8	6.6	7.1	6.9	6.7	6.6	6.7	6.6
12	7.1	7.1	6.8	6.5	6.9	6.6	6.9	6.8	6.7	6.6	6.7	6.6
13	7.1	7.1	6.9	6.7	6.9	6.8	6.9	6.8	6.6	6.6	6.7	6.6
14	7.1	7.1	7.0	6.9	7.0	6.9	6.8	6.8	6.7	6.6	6.7	6.7
15	7.1	7.0	7.0	7.0	6.8	6.8	6.9	6.8	6.7	6.6	6.8	6.7
16	7.2	7.0	7.0	6.9	6.8	6.8	6.8	6.8	6.7	6.6	6.8	6.7
17	7.2	7.0	6.9	6.8	6.8	6.8	6.9	6.8	6.7	6.6	6.7	6.6
18	7.0	7.0	6.8	6.8	6.9	6.8	6.9	6.9	6.7	6.7	6.7	6.6
19	7.2	7.0	6.8	6.7	6.9	6.9	6.9	6.8	6.7	6.7	6.8	6.7
20	7.1	7.0	6.8	6.7	6.9	6.9	6.8	6.8	6.7	6.7	6.8	6.7
21	7.2	7.0	6.8	6.8	6.9	6.8	6.8	6.8	6.7	6.6	6.7	6.7
22	7.0	7.0	6.9	6.8	6.9	6.8	6.7	6.7	6.7	6.6	6.7	6.7
23	7.1	7.0	6.9	6.6	6.8	6.8	6.7	6.7	6.7	6.6	6.7	6.7
24	7.1	7.0	6.8	6.7	6.8	6.8	6.8	6.7	6.7	6.6	6.8	6.7
25	7.0	7.0	6.8	6.7	6.9	6.8	6.9	6.7	6.7	6.6	6.8	6.8
26	7.0	7.0	6.9	6.8	6.9	6.8	6.8	6.7	6.7	6.7	6.9	6.8
27	7.1	7.0	6.9	6.7	6.9	6.7	6.8	6.7	6.7	6.7	6.8	6.7
28	7.1	6.9	6.8	6.7	6.9	6.8	6.7	6.6	6.7	6.6	6.8	6.7
29	6.9	6.9	6.9	6.8	6.8	6.8	6.7	6.7	6.7	6.7	6.8	6.7
30	7.0	6.9	6.8	6.8	6.8	6.8	6.8	6.7	6.7	6.6	6.8	6.7
31	---	---	6.9	6.7	---	---	6.9	6.7	6.6	6.6	---	---
MONTH	7.4	6.9	7.0	6.4	7.0	6.6	7.3	6.6	6.9	6.6	7.0	6.6

02387000 CONASAUGA RIVER AT TILTON, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	20.0	19.0	16.5	15.0	13.0	12.0	6.0	5.0	4.0	3.0	8.5	7.5
2	22.5	19.5	16.0	15.5	12.5	12.0	6.0	5.0	4.5	4.0	7.5	6.5
3	19.5	17.0	17.0	16.0	11.5	11.0	5.0	4.0	---	---	6.5	5.5
4	17.5	16.0	17.5	17.0	12.0	11.0	4.5	3.5	---	---	5.5	4.5
5	17.5	16.5	17.0	17.0	13.5	12.0	4.5	3.5	---	---	6.0	4.0
6	17.0	16.0	17.5	17.0	13.5	12.0	6.5	4.5	4.5	3.5	7.0	4.5
7	17.5	16.0	17.5	17.0	11.5	8.0	8.5	6.5	3.0	2.0	7.5	6.0
8	17.0	17.0	17.0	17.0	8.0	6.5	10.0	8.5	2.5	1.5	8.5	7.5
9	17.5	17.0	17.0	16.5	6.5	5.5	9.5	5.5	3.5	2.0	9.0	8.0
10	16.5	15.5	17.0	15.5	5.5	4.5	5.5	2.0	4.5	3.0	8.0	7.5
11	16.0	15.0	15.5	13.0	4.5	4.0	1.5	.5	5.0	3.5	8.5	7.0
12	15.5	14.5	13.0	10.5	4.5	3.5	3.0	1.5	6.0	4.0	10.0	8.5
13	14.5	14.0	10.5	9.0	6.5	4.5	4.5	2.5	6.5	5.0	11.5	10.0
14	14.0	13.0	9.0	8.0	9.0	6.0	---	---	6.5	6.0	14.0	12.0
15	14.0	12.0	9.0	8.0	10.5	8.5	---	---	8.0	6.0	14.5	13.5
16	14.0	12.5	10.0	8.5	10.5	10.0	3.0	3.0	8.0	7.0	14.0	11.5
17	13.0	11.5	---	---	10.5	10.0	4.0	3.0	9.5	8.0	11.0	9.5
18	13.5	11.5	---	---	10.0	9.0	5.5	2.5	9.0	8.5	9.5	8.5
19	14.0	12.0	---	---	10.0	8.5	6.0	3.5	8.5	7.5	9.5	9.0
20	14.0	12.5	---	---	10.0	9.5	5.0	.5	7.5	6.0	---	---
21	14.5	12.5	---	---	9.5	8.0	1.0	.5	6.5	5.5	---	---
22	14.5	12.5	---	---	8.0	6.5	3.5	.5	5.5	4.5	---	---
23	14.0	12.5	---	---	6.5	6.0	8.0	.5	5.0	4.0	---	---
24	14.0	12.5	---	---	8.5	6.5	5.0	3.0	6.5	4.5	---	---
25	---	---	---	---	9.0	8.0	9.0	4.5	7.5	5.0	---	---
26	---	---	---	---	8.5	6.0	---	---	8.0	6.0	---	---
27	16.0	15.5	---	---	6.0	4.5	3.0	2.0	8.0	6.0	11.5	10.5
28	16.5	15.5	9.0	8.5	4.5	3.0	2.5	2.0	8.0	7.0	12.0	10.0
29	17.0	16.0	10.0	9.0	3.0	2.5	3.0	2.0	---	---	13.5	10.5
30	16.5	16.5	12.0	10.5	4.0	3.0	2.5	2.0	---	---	15.0	12.5
31	16.5	16.0	---	---	5.0	4.0	3.0	2.0	---	---	16.5	13.5
MONTH	22.5	11.5	17.5	8.0	13.5	2.5	10.0	.5	9.5	1.5	16.5	4.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	17.5	15.0	15.0	14.5	25.0	22.5	29.5	28.0	28.0	25.5	28.0	27.0
2	18.0	15.5	15.0	14.5	25.0	23.0	29.5	28.0	28.5	26.0	28.0	26.0
3	19.0	16.5	15.0	14.0	24.0	23.0	29.0	27.5	28.0	27.0	28.5	26.0
4	20.0	17.5	14.5	14.0	24.5	22.5	29.0	27.5	27.0	26.0	28.0	25.5
5	21.0	18.0	15.5	14.0	24.0	22.0	28.5	27.0	27.0	25.5	27.5	24.5
6	20.5	19.0	17.0	14.5	25.0	22.5	28.5	27.0	27.0	26.0	27.0	24.5
7	21.5	19.0	17.0	16.5	25.0	23.5	28.5	26.5	26.5	24.5	27.5	25.0
8	21.5	18.5	17.5	17.0	24.5	22.5	29.0	26.5	25.5	24.5	28.0	25.0
9	21.5	18.5	18.5	17.5	22.5	22.0	29.0	27.0	25.0	24.0	28.5	26.0
10	22.0	19.5	19.0	18.5	25.0	21.5	28.0	27.0	24.0	23.5	28.5	26.5
11	21.5	19.5	19.0	17.5	24.0	22.0	28.0	27.0	25.0	23.0	27.0	25.0
12	19.5	18.0	18.0	17.0	24.5	22.0	27.5	26.0	25.5	24.0	26.0	24.5
13	19.0	17.5	18.5	17.5	23.5	22.0	27.0	26.5	25.5	24.0	26.5	24.5
14	19.0	17.0	17.5	16.5	23.0	21.0	27.0	26.0	26.0	24.0	26.5	25.5
15	19.0	16.5	16.5	15.0	23.5	22.0	27.0	25.5	26.5	25.0	26.0	24.5
16	19.0	16.5	15.5	14.5	24.0	22.0	27.0	25.0	27.5	26.0	26.5	25.0
17	19.5	17.0	16.5	14.5	25.0	22.5	26.5	24.5	28.5	26.5	27.0	24.5
18	19.0	18.0	17.5	15.5	25.0	22.5	26.5	24.0	29.0	27.5	28.0	25.5
19	18.0	17.0	19.5	17.0	25.5	23.0	29.0	26.0	29.0	27.5	27.5	25.5
20	17.0	16.0	21.0	18.0	25.5	23.5	28.5	26.5	29.5	27.5	28.0	25.5
21	16.0	14.5	22.0	19.5	26.0	24.5	29.0	26.5	28.5	27.5	28.0	26.0
22	15.5	13.5	22.0	20.0	26.5	24.5	30.0	27.0	27.5	26.5	28.5	26.5
23	15.5	13.5	22.5	20.5	26.5	25.0	30.5	28.0	28.0	25.5	27.0	26.0
24	16.5	13.5	22.5	21.0	26.5	25.5	28.5	27.5	29.0	26.5	26.5	24.0
25	16.5	15.5	23.5	21.0	27.5	25.5	28.0	26.5	29.0	26.5	24.5	23.0
26	16.0	15.0	23.5	22.0	27.0	26.0	26.5	25.0	28.0	27.0	24.0	22.5
27	15.0	14.0	24.0	22.0	27.0	25.0	26.5	25.5	28.0	26.0	23.5	21.5
28	14.5	13.0	23.5	22.5	28.5	26.0	27.5	25.5	28.0	26.5	23.0	21.5
29	15.5	13.5	24.0	22.0	29.5	27.5	28.5	26.5	28.0	26.5	23.5	21.5
30	15.0	14.5	23.5	22.5	29.5	28.0	28.5	27.0	28.5	27.0	23.0	21.5
31	---	---	24.5	22.0	---	---	29.0	26.0	28.5	27.0	---	---
MONTH	22.0	13.0	24.5	14.0	29.5	21.0	30.5	24.0	29.5	23.0	28.5	21.5

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.3	7.2	8.1	7.1	9.6	9.2	12.1	11.6	13.2	12.9	10.6	10.5
2	7.5	6.4	7.3	6.3	9.3	9.0	11.8	11.6	13.0	12.8	10.9	10.5
3	7.5	6.7	7.4	6.6	9.8	9.3	12.2	11.8	---	---	11.0	10.6
4	7.9	7.5	6.8	5.5	9.8	9.7	12.4	12.2	---	---	11.6	11.1
5	8.2	8.0	7.1	6.6	9.6	8.9	12.4	12.3	---	---	11.9	11.6
6	8.2	8.1	7.1	6.3	9.2	8.8	12.3	11.3	12.6	12.4	12.1	11.8
7	8.1	7.9	6.6	6.2	10.5	9.2	11.6	10.9	12.8	12.5	11.9	11.1
8	8.1	7.7	6.5	6.4	11.2	10.5	10.9	10.3	12.9	12.8	11.2	10.4
9	7.9	7.5	---	---	11.4	11.2	11.1	10.2	12.9	12.7	10.7	10.0
10	8.4	7.9	9.1	6.0	11.7	11.4	12.5	11.2	12.8	12.4	10.8	10.6
11	8.4	8.2	10.8	8.4	12.1	11.8	13.0	12.5	12.4	12.3	10.7	10.6
12	8.4	8.1	11.0	9.8	12.3	12.1	12.8	12.2	12.3	12.2	10.7	9.9
13	8.5	8.3	10.8	10.1	12.1	11.6	12.8	11.6	12.2	11.7	10.3	9.9
14	8.6	8.3	10.2	10.0	11.6	10.6	---	---	11.7	11.4	10.2	9.4
15	8.6	8.5	10.0	6.6	10.5	9.8	---	---	11.4	11.4	9.5	9.2
16	8.7	8.5	6.8	6.5	10.1	9.9	12.6	12.4	11.5	11.2	9.5	9.3
17	8.9	8.6	---	---	10.0	9.9	12.5	12.0	11.1	10.8	10.5	9.7
18	8.7	8.1	---	---	10.3	9.9	11.8	10.7	10.8	10.7	11.1	10.4
19	8.9	8.6	---	---	10.7	10.3	11.8	10.3	11.2	10.7	10.6	10.0
20	8.6	8.3	---	---	10.7	10.3	11.9	10.5	11.8	11.2	---	---
21	8.4	8.1	---	---	10.7	10.5	12.0	10.1	11.7	11.6	---	---
22	8.2	7.9	---	---	11.2	10.7	12.0	11.1	12.0	11.6	---	---
23	8.3	7.9	---	---	11.7	11.2	12.1	10.1	12.1	11.8	---	---
24	8.5	8.3	---	---	11.7	11.0	11.2	10.7	12.1	11.7	---	---
25	---	---	---	---	11.1	9.6	---	---	12.0	11.5	---	---
26	---	---	---	---	11.4	10.5	---	---	11.9	11.3	---	---
27	7.0	6.6	---	---	12.2	11.4	12.7	12.4	11.8	11.3	9.8	9.6
28	---	---	10.5	10.3	12.6	12.2	13.0	12.7	11.2	10.6	10.1	9.8
29	---	---	10.3	9.9	12.8	12.5	13.0	12.6	---	---	10.0	9.4
30	7.2	6.7	10.0	9.6	12.8	12.4	13.4	12.7	---	---	9.4	8.7
31	8.2	6.8	---	---	12.5	12.2	13.4	13.1	---	---	8.7	8.3
MONTH	8.9	6.4	11.0	5.5	12.8	8.8	13.4	10.1	13.2	10.6	12.1	8.3

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	8.4	8.1	8.3	7.0	---	---	3.5	2.4	5.6	3.0	2.1	1.5
2	8.5	8.1	8.2	7.9	---	---	4.0	3.4	4.6	3.2	2.3	1.6
3	8.3	7.6	8.3	8.3	---	---	5.7	4.3	4.1	3.3	2.9	1.5
4	7.6	6.6	8.4	8.1	---	---	6.0	4.9	3.5	2.7	6.1	1.8
5	6.8	6.4	8.2	7.9	---	---	6.8	5.1	3.6	2.7	6.7	4.9
6	6.4	4.4	8.0	7.8	---	---	7.0	5.0	4.8	3.5	7.7	3.4
7	5.0	4.6	7.8	7.3	---	---	7.6	5.6	5.7	4.7	4.4	2.0
8	5.1	4.5	8.0	6.8	---	---	7.7	5.9	5.9	5.3	3.1	1.2
9	5.6	4.6	7.2	6.9	---	---	7.5	5.8	6.3	4.8	2.4	1.2
10	6.4	5.5	7.1	6.7	---	---	6.7	4.8	5.9	4.5	2.0	1.1
11	5.7	4.9	6.9	6.1	---	---	6.5	4.0	5.9	4.8	3.4	1.9
12	6.2	4.6	7.7	6.2	6.0	5.0	5.6	3.7	4.8	3.2	3.5	1.8
13	6.6	6.3	7.4	5.9	6.2	5.4	4.9	1.9	3.6	3.2	3.0	1.7
14	6.7	6.2	7.8	7.3	6.2	5.4	2.5	1.6	4.7	3.6	1.8	1.6
15	6.8	5.7	8.1	7.8	5.3	4.6	3.9	2.6	4.1	3.1	1.9	1.6
16	7.2	5.6	7.4	6.7	4.5	3.9	3.3	2.5	3.1	2.0	1.8	1.4
17	7.4	6.7	7.3	6.8	3.9	3.5	5.4	3.5	2.2	1.1	2.8	1.6
18	6.6	6.3	6.9	6.0	4.5	3.7	5.8	5.1	1.3	.8	4.1	2.1
19	6.9	6.0	6.5	5.1	4.9	4.4	5.1	4.3	1.1	.8	5.5	2.1
20	7.6	6.8	5.8	4.5	4.4	3.5	4.5	3.7	1.4	1.0	4.7	1.7
21	7.6	7.3	5.6	4.2	3.7	3.1	3.9	3.4	3.2	1.5	3.7	1.3
22	8.0	7.6	5.5	4.7	3.5	3.0	3.4	2.7	4.3	3.1	2.8	1.3
23	8.3	7.9	5.4	4.2	3.0	2.7	2.7	2.3	4.8	2.3	1.7	1.2
24	8.3	7.6	5.6	4.4	2.6	2.3	3.4	2.6	3.1	1.7	3.0	1.3
25	7.5	6.5	4.6	3.3	3.0	2.2	5.3	3.1	2.8	1.4	5.8	3.1
26	6.7	6.1	4.4	2.3	4.3	2.8	5.3	3.6	2.2	1.3	8.4	4.6
27	8.2	6.4	4.3	3.1	4.1	1.3	4.5	3.9	2.3	1.4	7.8	4.2
28	8.6	8.2	3.5	2.6	4.2	2.8	3.9	3.0	5.0	2.5	4.9	2.5
29	8.3	8.1	4.3	2.7	2.7	1.7	3.4	2.6	5.5	3.6	4.9	2.5
30	8.3	7.9	4.5	4.2	2.8	1.9	2.8	2.4	3.5	2.1	3.3	2.0
31	---	---	4.6	3.1	---	---	5.8	3.0	2.3	1.3	---	---
MONTH	8.6	4.4	8.4	2.3	6.2	1.3	7.7	1.6	6.3	.8	8.4	1.1

02387050 CONASAUGA RIVER NEAR RESACA, GA.

LOCATION.--Lat 34°35'36", long 84°56'02", Gordon County, Hydrologic Unit 03150101, at county highway bridge, 1.1 mi (1.8 km) northeast of Resaca, and 5.1 mi (8.2 km) upstream from confluence with Coosawattee River.
PERIOD OF RECORD.--August 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
25...	1245	432	7.5	16.5	14.0	7.4
NOV						
28...	1500	1550	7.5	8.0	8.0	10.4
DEC						
27...	1300	2590	7.0	5.5	5.5	10.4
JAN						
24...	1415	2400	7.2	9.0	5.0	11.2
FEB						
21...	0945	624	7.6	1.0	6.5	10.6
MAR						
27...	1250	1220	7.5	9.0	12.0	7.8
APR						
26...	0945	673	7.0	11.0	15.5	5.0
MAY						
30...	1025	528	7.2	27.0	23.0	3.6
JUN						
26...	1115	282	7.5	32.5	27.0	3.2
JUL						
24...	1240	170	7.3	35.0	28.0	--
AUG						
29...	1615	145	7.5	32.0	27.0	3.6
SEP						
25...	1100	122	7.7	25.0	24.0	2.6

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
25...	180	21	1.4	750	75	--	.44	<.02	.46	4.0
NOV										
28...	124	11	.9	750	56	--	.48	.04	.13	1.0
DEC										
27...	93	34	.8	7500	44	--	.31	.03	.11	5.0
JAN										
24...	113	15	.6	230	48	--	.38	.03	.13	1.0
FEB										
21...	156	9	.7	<30	67	--	.20	.33	.18	9.0
MAR										
27...	134	23	1.4	930	62	--	.29	.10	.10	1.0
APR										
26...	141	23	1.8	930	58	--	.49	.26	.04	6.0
MAY										
30...	154	26	1.9	2300	80	--	.80	.23	.17	5.0
JUN										
26...	210	12	2.1	300	87	--	.70	.13	.46	3.5
JUL										
24...	262	7	3.5	90	92	89	.50	.70	2.1	12
AUG										
29...	244	3	1.6	230	140	99	.81	.15	.70	5.0
SEP										
25...	330	3	2.1	1500	106	106	.71	.31	2.1	11

02387500 OOSTANAULA RIVER AT RESACA, GA.

LOCATION.--Lat 34°34'42", long 84°56'29", Gordon County, Hydrologic Unit 03150103, near left bank on downstream side of pier of bridge on U.S. Highway 41 at Resaca, 200 ft (61 m) downstream from Nashville, Chattanooga, & St. Louis Railway bridge, 0.8 mi (1.3 km) upstream from Camp Creek, and 3.5 mi (5.6 km) downstream from confluence of Conasauga and Coosawattee Rivers.
DRAINAGE AREA.--1,610 mi^2 (4,170 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1892 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage-height records collected at same site since 1892 are contained in reports of National Weather Service.
REVISED RECORDS.--WSP 697: 1896-1928. WSP 1504: 1897-1903, 1905-7, 1909, 1912-13, 1914-15(M), 1916-18, 1919(M), 1920-22, 1923(M), 1924, 1927, 1929-30, 1932, 1933(M), 1936(M), 1938(M), 1946-47(M).
GAGE.--Water-stage recorder. Datum of gage is 604.14 ft (184.14 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers).
REMARKS.--Records good. Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400).
AVERAGE DISCHARGE.--86 years, 2,802 ft^3/s (79.4 m^3/s), 23.63 in/yr (600.2 mm/yr), unadjusted.
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 54,800 ft^3/s (1,550 m^3/s) Mar. 31, 1951; maximum gage height, 34.6 ft (10.55 m) Mar. 31, 1951; minimum discharge observed, 180 ft^3/s (5.10 m^3/s) Sept. 7, 8, 1925, gage height, 0.5 ft (0.15 m).
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 36.6 ft (11.16 m) Apr. 1, 1886, from information by Georgia Department of Archives; discharge, 68,600 ft^3/s (1,940 m^3/s).
EXTREMES FOR CURRENT YEAR.--Maximum discharge, 16,000 ft^3/s (453 m^3/s) Jan. 27, gage height, 21.00 ft (3.810 m); minimum discharge, 354 ft^3/s (10.0 m^3/s) Sept. 30, gage height, 1.28 ft (0.390 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2030	1940	3650	3040	5260	2020	1810	4180	1090	808	682	645
2	3010	2120	3210	2430	4990	2120	1750	6710	1060	756	682	595
3	5490	1680	2890	2890	4510	3360	2280	4510	1410	733	649	560
4	4490	1790	2560	2490	4050	4220	2600	3480	1780	715	921	525
5	1920	8100	2210	1990	3140	3840	1850	4220	1570	670	1510	489
6	1750	12900	2950	2460	2490	2470	1390	3490	1240	677	1420	508
7	1770	13800	4250	3480	3160	2340	1340	2230	1230	694	1490	491
8	1300	12600	4450	5240	2710	2860	1970	4350	2110	705	1940	514
9	4700	11400	2700	12200	2620	4610	2070	10400	4280	622	2630	557
10	5550	10200	2730	13200	2730	11500	1880	11200	3330	565	2120	553
11	4660	5650	2760	11800	2470	12400	1720	10500	2170	644	2360	576
12	2890	4130	1920	10500	2400	11300	2090	6070	1750	604	1430	518
13	1540	4210	1930	6300	2500	7610	2350	3160	2790	567	984	477
14	1280	3900	1760	5310	3030	5860	2200	2800	3030	613	1990	504
15	1170	3920	2660	4870	2740	7430	1850	1990	1830	1010	1190	549
16	1160	3810	2350	4500	2400	7670	1640	2530	1280	1550	1430	569
17	1870	5140	2030	5120	1790	5450	1730	2270	1220	1850	823	562
18	1010	7110	2790	7120	1580	3540	2000	2920	1170	869	944	582
19	967	6480	4000	8510	1840	2960	4260	3040	1320	695	855	643
20	920	4970	3510	10100	1590	3480	5400	2610	1720	1050	689	1210
21	1180	4480	2790	10600	1480	3350	3750	1500	1720	869	652	729
22	948	4570	3040	9190	1480	2800	1940	2040	988	566	652	479
23	830	4870	2830	6380	2070	2630	2070	1810	938	528	641	485
24	1210	5960	1930	5070	2020	2480	2070	1940	945	535	669	534
25	1860	5150	5650	8430	1770	2550	1930	1660	934	1050	667	448
26	8400	4150	7160	13700	1410	2590	2600	1730	922	1140	649	425
27	9280	2530	5010	15600	2060	2920	3060	2350	977	969	723	424
28	6590	2220	4650	15300	2070	3180	3240	2090	992	687	793	395
29	2760	3210	3750	14800	---	2750	2550	1950	2000	630	830	367
30	1900	3820	2420	11500	---	1960	2010	1770	1720	613	639	357
31	1560	---	3280	7710	---	1820	---	1590	---	618	644	---
TOTAL	85995	166810	99820	241830	72360	136070	69400	113090	49516	24602	34298	16270
MEAN	2774	5560	3220	7801	2584	4389	2313	3648	1651	794	1106	542
MAX	9280	13800	7160	15600	5260	12400	5400	11200	4280	1850	2630	1210
MIN	830	1680	1760	1990	1410	1820	1340	1500	922	528	639	357

CAL YR 1977 TOTAL 1279342 MEAN 3505 MAX 25900 MIN 427 MEAN† 3505 CFSM† 2.18 IN† 29.59
WTR YR 1978 TOTAL 1110061 MEAN 3041 MAX 15600 MIN 357 MEAN† 3040 CFSM† 1.89 IN† 25.66

† Adjusted for change in contents in Carters Lake and Carters re-regulation dam.

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.00	4.85	7.57	6.68	9.70	5.03	4.60	8.18	3.16	2.59	2.25	2.14
2	6.49	5.20	6.95	5.72	9.37	5.19	4.49	11.45	3.10	2.46	2.25	2.00
3	9.99	4.35	6.47	6.43	8.76	7.15	5.46	8.71	3.80	2.39	2.15	1.90
4	8.69	4.49	5.94	5.61	8.14	8.38	5.99	7.32	4.53	2.34	2.77	1.80
5	4.79	12.83	5.35	4.95	6.84	7.84	4.68	8.38	4.08	2.22	4.00	1.70
6	4.48	17.80	6.58	5.77	5.82	5.73	3.76	7.32	3.46	2.23	3.81	1.75
7	4.52	18.67	8.40	7.33	6.83	5.56	3.65	5.38	3.44	2.28	3.96	1.70
8	3.58	17.47	8.68	9.52	6.16	6.44	4.90	8.45	5.08	2.31	4.80	1.77
9	8.77	16.34	6.13	17.13	6.03	8.70	5.11	15.27	8.44	2.08	6.04	1.89
10	10.06	15.15	6.20	18.11	6.21	16.37	4.74	16.09	7.07	1.91	5.17	1.88
11	8.95	10.13	6.27	16.74	5.78	17.53	4.42	15.41	5.27	2.14	5.58	1.95
12	6.39	8.26	4.82	15.42	5.67	16.65	5.12	10.59	4.49	2.03	3.83	1.78
13	4.07	8.38	4.85	10.95	5.83	11.65	5.58	6.87	6.30	1.92	2.95	1.66
14	3.53	7.92	4.50	9.76	6.65	10.96	5.34	6.31	6.67	2.05	4.92	1.74
15	3.33	7.95	6.11	9.21	6.23	12.26	4.68	4.95	4.61	2.98	3.36	1.87
16	3.30	7.80	5.59	8.75	5.67	12.52	4.27	5.87	3.54	4.08	3.84	1.93
17	4.69	9.50	5.02	9.52	4.56	9.92	4.43	5.45	3.42	4.69	2.60	1.91
18	3.00	11.90	6.24	11.91	4.14	7.42	4.98	6.51	3.32	2.69	2.87	1.96
19	2.91	11.18	8.07	13.40	4.66	6.58	8.34	6.69	3.61	2.29	2.67	2.14
20	2.82	9.33	7.38	14.97	4.16	7.34	9.87	6.02	4.41	3.05	2.27	3.39
21	3.34	8.72	6.31	15.50	3.94	7.14	7.69	3.98	4.42	2.71	2.16	2.32
22	2.88	8.83	6.69	14.08	3.94	6.32	4.84	5.04	2.96	1.92	2.16	1.67
23	2.63	9.22	6.38	11.06	5.10	6.06	5.12	4.59	2.86	1.81	2.13	1.69
24	3.40	10.58	4.81	9.46	5.01	5.80	5.10	4.85	2.87	1.83	2.21	1.82
25	4.41	9.57	10.14	13.20	4.52	5.92	4.98	4.29	2.85	3.05	2.20	1.58
26	13.27	8.28	11.95	19.37	3.80	5.96	6.00	4.41	2.82	3.25	2.15	1.51
27	14.18	5.86	9.38	20.87	5.04	6.51	6.73	5.59	2.93	2.90	2.36	1.51
28	11.26	5.36	8.93	20.69	5.08	6.90	6.98	5.15	2.96	2.26	2.56	1.42
29	6.23	6.92	7.69	20.03	---	6.26	5.92	4.89	4.94	2.10	2.63	1.32
30	4.78	7.81	5.70	16.97	---	4.89	5.00	4.53	4.40	2.05	2.12	1.29
31	4.11	---	7.05	12.55	---	4.62	---	4.15	---	2.06	2.14	---
MEAN	5.80	9.69	6.84	12.32	5.84	8.25	5.43	7.18	4.19	2.47	3.13	1.83
MAX	14.18	18.67	11.95	20.87	9.70	17.53	9.87	16.09	8.44	4.69	6.04	3.39
MIN	2.63	4.35	4.50	4.95	3.80	4.62	3.65	3.98	2.82	1.81	2.12	1.29

WTR YR 1978 MEAN 6.09 MAX 20.87 MIN 1.29

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1969 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: July 1967 to current year.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum recorded, 28.0°C several days in June and July 1969 and July 24, 25, 1972; minimum recorded, 1.0°C Jan. 9-14, 1970, Jan. 16, 17, 21-24, Feb. 1, 1977.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 27.5°C July 24, 25; minimum, 2.5°C Jan. 11, 12, 30.

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22.0	20.5	17.5	16.5	13.5	13.0	7.5	7.5	4.5	3.5	7.5	7.0
2	22.0	21.5	17.5	17.5	13.0	12.5	7.5	6.5	5.0	4.0	7.0	6.5
3	21.0	20.0	18.0	17.5	12.5	12.0	7.5	6.0	5.0	4.5	6.5	6.0
4	20.0	18.5	18.5	18.0	12.5	12.5	7.0	6.0	5.0	5.0	6.0	6.0
5	18.5	17.5	19.0	18.5	13.5	12.5	7.0	6.0	5.0	5.0	6.0	5.0
6	18.5	18.0	19.0	19.0	13.5	12.0	8.0	7.0	5.0	3.5	7.0	5.5
7	19.5	18.5	19.0	19.0	12.0	10.5	9.0	8.0	4.0	3.0	7.0	7.0
8	19.5	18.5	19.0	18.5	10.5	10.0	11.0	9.0	3.5	3.0	8.0	7.5
9	18.5	18.0	18.5	18.5	10.0	8.5	11.0	7.0	4.5	3.5	8.0	8.0
10	18.0	17.0	18.5	16.5	8.0	7.5	7.0	4.0	5.0	4.0	9.0	8.0
11	19.0	17.0	16.5	15.0	8.0	6.5	4.0	2.5	5.0	4.5	9.0	9.0
12	18.5	16.5	15.0	14.5	6.5	5.5	4.0	2.5	5.5	5.0	10.0	9.0
13	16.5	15.0	14.0	13.5	8.5	6.5	5.5	4.0	6.0	5.0	11.0	10.0
14	15.0	14.0	13.5	13.0	10.5	9.0	5.5	4.0	6.0	6.0	13.5	11.0
15	15.0	14.0	13.5	13.0	11.0	10.5	5.5	5.5	6.5	6.0	13.5	13.5
16	15.0	14.5	13.5	11.5	11.0	10.5	5.5	4.0	7.0	6.5	13.5	12.0
17	15.5	14.0	15.0	12.5	11.5	11.0	6.0	4.5	8.5	7.0	11.5	9.5
18	14.0	13.0	14.0	14.0	11.5	11.0	5.0	4.5	8.5	7.5	9.5	9.0
19	15.0	14.0	14.0	14.0	11.0	10.5	6.0	5.0	8.0	7.0	10.0	9.0
20	15.0	14.0	14.0	14.0	11.0	10.5	6.0	5.5	7.0	6.0	11.0	9.5
21	16.0	14.5	14.0	12.5	11.0	9.5	5.5	5.0	6.5	5.5	11.5	11.0
22	16.0	15.0	15.0	12.5	9.5	9.5	5.5	5.0	5.5	5.0	12.5	11.0
23	16.0	14.5	15.5	15.0	9.5	9.0	5.5	5.0	5.5	5.0	13.0	12.5
24	17.0	16.0	16.0	15.5	9.5	9.0	6.0	5.5	6.0	5.0	13.0	13.0
25	16.5	16.5	16.0	14.5	10.5	10.0	7.0	6.0	7.0	6.0	13.5	13.0
26	17.0	16.5	14.5	12.5	9.5	7.5	7.0	5.5	8.0	7.0	13.5	12.0
27	17.0	17.0	12.5	11.0	7.5	7.0	5.0	4.0	7.0	6.5	12.0	10.5
28	17.0	16.5	11.0	11.0	7.5	5.5	4.0	3.5	7.0	7.0	10.5	9.5
29	17.5	17.0	12.5	11.0	7.0	5.5	3.5	3.0	---	---	11.5	10.0
30	17.5	17.5	13.5	12.5	6.5	6.0	3.5	2.5	---	---	13.0	11.5
31	17.5	17.0	---	---	7.5	7.0	4.0	3.5	---	---	14.0	12.5
MONTH	22.0	13.0	19.0	11.0	13.5	5.5	11.0	2.5	8.5	3.0	14.0	5.0

02387500 OOSTANAULA RIVER AT RESACA, GA.--Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	14.5	13.5	15.0	14.0	23.0	21.0	25.5	23.5	26.5	24.5	25.5	24.0
2	15.0	14.5	15.0	14.5	22.0	21.0	25.5	24.0	26.0	24.0	24.5	23.5
3	15.5	14.0	15.0	14.0	21.0	19.0	25.5	23.5	25.5	24.0	25.5	23.5
4	15.5	14.0	14.0	13.0	20.0	19.0	25.5	24.0	24.0	22.0	25.5	23.5
5	16.5	14.5	14.0	13.5	22.0	20.0	26.0	23.5	24.0	22.0	25.0	23.5
6	17.5	16.5	15.5	13.5	22.5	21.0	25.5	24.0	24.5	24.0	25.0	23.5
7	18.5	17.0	15.5	15.5	21.0	20.5	25.0	23.5	25.0	24.0	25.0	23.5
8	17.5	14.0	17.5	15.5	20.5	19.5	25.0	23.0	25.0	23.0	25.0	23.0
9	16.5	15.0	17.5	17.5	20.5	20.0	25.5	23.5	23.5	23.0	25.0	23.0
10	18.5	16.5	17.5	17.5	20.5	19.0	26.5	24.0	23.5	23.0	24.5	23.5
11	18.5	15.5	17.5	17.5	21.0	20.5	26.5	25.5	23.5	22.0	24.5	23.0
12	15.5	15.0	17.5	16.5	21.5	20.5	25.5	24.5	24.5	22.0	24.5	23.5
13	16.0	15.0	17.5	16.5	22.5	21.5	25.0	24.0	24.5	23.5	25.0	23.5
14	15.5	14.0	17.0	16.5	22.0	20.5	24.0	23.0	23.5	22.0	25.0	23.5
15	15.5	14.0	16.5	15.5	22.0	20.5	23.5	22.0	25.5	23.5	23.5	23.0
16	15.5	14.0	15.5	14.0	23.0	21.0	23.5	23.0	24.5	24.0	23.5	22.5
17	17.0	15.0	15.0	14.0	22.5	21.0	25.0	23.5	27.0	25.0	24.5	23.0
18	17.0	15.5	15.0	14.5	22.5	21.0	26.0	24.0	26.0	24.0	25.0	24.0
19	15.5	15.0	16.5	15.0	22.0	21.5	25.5	23.5	26.5	24.5	25.0	23.5
20	15.5	14.0	17.5	15.5	22.0	21.5	25.5	23.5	26.5	25.5	25.0	23.5
21	14.0	12.5	20.5	17.5	21.5	21.0	25.0	24.0	26.0	25.0	25.0	24.0
22	14.0	13.0	19.5	18.0	24.0	21.5	26.5	24.5	26.0	24.5	25.5	24.5
23	13.5	13.0	19.5	18.0	24.0	22.5	27.0	25.5	25.5	24.0	25.0	23.5
24	15.0	13.5	21.0	19.5	23.5	22.5	27.5	26.0	25.5	24.0	24.5	23.5
25	15.0	14.0	21.5	19.5	24.0	22.0	27.5	24.0	25.5	24.0	23.5	22.5
26	14.0	12.5	21.5	20.0	24.0	22.5	26.0	24.0	25.0	24.5	23.0	22.0
27	13.5	12.0	20.0	19.0	24.5	22.5	25.5	24.0	25.0	23.5	22.5	21.5
28	14.0	13.0	19.5	19.0	25.0	23.0	26.0	24.5	25.5	24.0	22.5	21.5
29	14.5	13.5	21.5	19.5	23.0	20.5	26.5	24.5	25.5	24.5	22.5	21.5
30	14.5	14.0	21.5	19.5	23.5	20.5	26.0	24.5	25.5	24.5	22.0	21.0
31	---	---	21.5	18.5	---	---	26.0	24.5	25.5	24.5	---	---
MONTH	18.5	12.0	21.5	13.0	25.0	19.0	27.5	22.0	27.0	22.0	25.5	21.0
YEAR	27.5	2.5										

02387502 OOSTANAULA RIVER BELOW RESACA, GA.

LOCATION.--Lat 34°34'17", long 84°56'49", Gordon County, Hydrologic Unit 03150103, at bridge on Interstate Highway 75, 0.4 mi (0.6 km) west of Resaca, and 0.4 mi (0.6 km) upstream from Camp Creek.

DRAINAGE AREA.--1,610 mi^2 (4,170 km^2), approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Carters Lake and Carters re-regulation reservoir. (See "Lakes and Reservoirs in Mobile River Basin", stations 02381400, 02382400.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT 25...	1215	910	7.4	16.5	15.0	8.1
NOV 28...	1415	2250	7.5	8.0	11.0	9.9
DEC 27...	1230	4840	7.2	4.0	6.5	10.7
JAN 24...	1330	4880	7.1	8.0	6.0	11.4
FEB 21...	0900	1490	7.5	4.0	6.5	11.2
MAR 27...	1230	3010	7.3	9.0	11.0	8.9
APR 26...	0910	2580	6.9	10.0	14.5	9.6
JUN 26...	1015	930	7.5	28.5	23.0	6.7
JUL 24...	1325	536	7.4	33.0	27.0	--
AUG 29...	1715	835	7.4	30.0	26.0	6.0
SEP 25...	1020	444	7.1	27.5	22.0	6.1

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	HARDNESS (MG/L AS CACO3)	ALKALINITY (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 25...	121	9	1.3	430	52	--	.20	<.02	.15	2.0
NOV 28...	103	10	.9	2300	50	--	.32	.02	.07	2.0
DEC 27...	79	36	1.5	1500	35	--	.27	.04	.09	4.0
JAN 24...	119	15	.5	230	32	--	.33	<.02	.05	1.0
FEB 21...	119	8	.9	90	53	--	.30	.06	.05	2.0
MAR 27...	84	17	1.0	150	36	--	.22	<.02	.06	1.5
APR 26...	96	29	1.0	930	40	--	.34	.11	.15	5.0
JUN 26...	114	10	1.0	90	45	--	.45	.06	.25	1.5
JUL 24...	147	10	1.6	230	58	53	.43	.11	.74	5.0
AUG 29...	105	6	1.2	430	50	37	.26	.13	.28	2.0
SEP 25...	155	5	.8	2300	60	50	.35	.03	.85	5.0

02388000 WEST ARMUCHEE CREEK NEAR SUBLIGNA, GA.

LOCATION.--Lat 34°34'04", long 85°09'16", Chattooga County, Hydrologic Unit 03150103, on left bank 500 ft (152 m) downstream from bridge on county road, 1 mi (1.6 km) upstream from Ruff Creek, and 2 mi (3.2 km) east of Subligna.
DRAINAGE AREA.--34.5 mi^2 (89.4 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1939 to June 1940, May 1960 to current year. Monthly discharge only for some periods, published in WSP 1304.
GAGE.--Water-stage recorder. Altitude of gage is 750 ft (229 m), from topographic map.
REMARKS.--Records good.
AVERAGE DISCHARGE.--18 years, 66.4 ft^3/s (1.88 m^3/s), 26.12 in/yr (663.4 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,670 ft^3/s (274 m^3/s) Mar. 4, 1966, gage height, 11.33 ft (3.453 m), from rating curve extended above 3,000 ft^3/s (85.0 m^3/s) on basis of contracted-opening measurement of peak flow; minimum, 3.1 ft^3/s (0.088 m^3/s) Aug. 29, 1939.
EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 29, 1951, reached a stage of 12.1 ft (3.69 m), from floodmarks; discharge, 12,400 ft^3/s (351 m^3/s), as explained above.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,100 ft^3/s (31.2 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 25	2045	1350	38.2	6.64	2.024	Jan. 25	2330	1700	48.1	7.16	2.182
Nov. 5	0945	*2610	73.9	8.25	2.515	Mar. 10	0600	1500	42.5	6.81	2.076
Jan. 8	1745	1570	44.5	6.98	2.128	May 8	2015	2050	58.1	7.61	2.319

Minimum daily discharge, 5.7 ft^3/s (0.161 m^3/s) Sept. 11-13, 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	43	126	65	88	27	42	109	24	14	10	7.7
2	211	40	106	60	83	28	39	90	23	13	8.4	6.8
3	90	37	93	54	74	44	36	67	22	14	8.4	6.4
4	54	406	83	50	68	44	34	63	21	13	9.0	6.2
5	40	2020	78	48	63	41	33	51	20	13	9.4	6.2
6	33	1220	67	61	56	39	32	43	19	12	9.9	6.2
7	29	523	57	70	51	37	30	67	19	12	9.3	6.2
8	86	268	53	640	48	55	29	562	92	12	10	6.0
9	222	179	52	455	46	333	27	484	63	11	11	6.0
10	99	133	45	208	45	940	27	179	40	11	10	5.9
11	68	101	42	146	43	291	32	118	32	11	9.6	5.7
12	52	85	40	118	40	186	32	90	30	11	11	5.7
13	41	73	38	106	47	137	28	84	42	11	14	5.7
14	35	65	40	90	42	313	26	68	29	11	11	7.3
15	31	59	37	77	38	214	25	59	25	11	10	9.4
16	28	56	35	69	36	153	24	52	23	12	9.6	8.6
17	25	194	36	169	34	116	23	46	21	11	9.8	8.1
18	23	124	43	171	34	97	47	42	19	10	9.8	7.5
19	22	92	40	200	33	85	75	37	18	9.9	8.8	7.2
20	20	78	39	349	32	77	51	33	19	8.9	8.0	7.0
21	19	76	37	203	32	71	41	31	20	7.8	7.2	6.7
22	18	110	34	150	30	68	35	29	19	7.0	6.6	6.7
23	18	296	32	120	29	60	32	29	18	6.1	6.5	6.5
24	16	181	58	121	29	56	29	31	18	5.9	6.5	6.3
25	430	135	237	612	28	58	36	26	17	11	6.3	6.2
26	377	103	129	798	27	69	36	25	17	11	6.0	6.2
27	130	88	95	271	26	59	32	26	19	11	6.0	6.0
28	88	117	78	183	27	55	29	69	17	9.9	6.0	5.9
29	69	140	68	141	---	50	27	44	15	8.5	7.4	5.7
30	57	135	74	112	---	46	27	32	14	7.3	9.8	5.7
31	48	---	68	98	---	44	---	28	---	7.8	8.8	---
TOTAL	2509	7177	2060	6015	1229	3893	1016	2714	775	325.1	274.1	197.7
MEAN	80.9	239	66.5	194	43.9	126	33.9	87.5	25.8	10.5	8.84	6.59
MAX	430	2020	237	798	88	940	75	562	92	14	14	9.4
MIN	16	37	32	48	26	27	23	25	14	5.9	6.0	5.7
CFSM	2.35	6.93	1.93	5.62	1.27	3.65	.98	2.54	.75	.30	.26	.19
IN.	2.71	7.74	2.22	6.49	1.33	4.20	1.10	2.93	.84	.35	.30	.21

CAL YR 1977 TOTAL 33166.9 MEAN 90.9 MAX 2780 MIN 5.5 CFSM 2.64 IN 35.76
WTR YR 1978 TOTAL 28184.9 MEAN 77.2 MAX 2020 MIN 5.7 CFSM 2.24 IN 30.39

02388000 WEST ARMUCHEE CREEK NEAR SUBLIGNA, GA.—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.—November 1977 to current year.

WATER QUAL . DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	TEMPER-ATURE (DEG C)	TUR-BID-ITY (NTU)	SEDI-MENT, SUS-PENDED (MG/L)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
NOV 29...	1155	146	13.0	8.0	12	4.7	73
FEB 22...	1130	30	4.0	2.0	6	.49	--
APR 04...	0910	34	15.0	4.0	12	1.1	100
MAY 16...	1100	53	14.0	4.0	7	1.0	100
JUN 28...	1215	16	24.0	5.0	34	1.5	100
AUG 08...	1040	11	22.0	3.0	14	.42	99
SEP 20...	1735	6.7	24.5	4.0	16	.29	100

02388300 HEATH CREEK NEAR ROME, GA.

LOCATION.--Lat 34°21'57", long 85°16'17", Floyd County, Hydrologic Unit 03150103, on upstream left wingwall of bridge on county road, 4 mi (6.4 km) upstream from Little Armuchee Creek, and 9.5 mi (15.3 km) northwest of Rome.

DRAINAGE AREA.--14.3 mi^2 (37.0 km^2).

PERIOD OF RECORD.--May 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 650 ft (198 m), from topographic map.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--10 years, 26.3 ft^3/s (0.745 m^3/s), 24.98 in/yr (634.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 9.82 ft (2.993 m) Apr. 4, 1977 (discharge not determined); minimum daily discharge, 1.2 ft^3/s (0.034 m^3/s) Aug. 31 to Sept. 6, 1977.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft^3/s (11.3 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 25	2015	464	13.1	5.45	1.661	Jan. 26	0130	626	17.7	6.38	1.945
Nov. 5	0900	not determined		8.50	2.591	Mar. 10	0230	460	13.0	5.37	1.637
Jan. 8	1845	568	16.1	6.00	1.829	May 9	0045	590	16.7	6.19	1.887

Minimum daily discharge, 1.3 ft^3/s (0.037 m^3/s) Sept. 29, 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	12	42	34	38	10	13	50	4.6	4.0	2.1	1.7
2	6.8	11	34	31	38	11	13	33	4.6	3.8	2.0	1.7
3	5.6	11	30	28	30	17	12	29	5.7	3.8	2.1	1.7
4	4.6	32	28	25	26	13	11	36	4.6	3.6	2.2	1.6
5	3.8	590	26	24	24	12	11	29	4.3	3.5	2.2	1.5
6	3.6	203	21	37	21	12	11	23	4.1	3.4	2.1	1.6
7	3.1	130	18	38	18	13	9.9	60	5.1	3.3	2.2	1.5
8	18	85	16	257	18	41	9.3	210	28	3.3	3.0	1.5
9	87	63	23	173	17	156	8.9	297	13	3.5	3.4	1.5
10	35	47	17	100	16	312	8.5	97	7.8	3.7	3.2	1.4
11	22	35	16	70	15	125	21	63	6.0	3.3	3.5	1.5
12	14	29	15	54	14	87	17	46	6.0	3.3	2.8	2.2
13	11	24	15	50	21	64	14	44	16	3.2	2.9	1.7
14	8.5	21	18	40	16	116	11	29	7.0	3.3	2.5	1.7
15	7.2	18	16	34	14	84	11	24	6.2	3.2	2.3	1.8
16	6.2	19	14	27	13	66	9.9	20	5.1	3.3	2.2	1.7
17	5.6	30	16	82	12	51	9.4	17	4.6	3.1	2.2	1.6
18	5.2	19	24	74	12	41	72	14	4.3	3.0	2.2	1.6
19	4.8	16	19	93	12	35	182	13	4.2	3.0	2.0	1.5
20	4.2	14	20	141	11	31	79	11	7.2	2.9	2.0	1.8
21	4.0	13	18	88	12	28	53	10	5.0	2.8	2.0	1.5
22	3.8	21	16	68	11	25	37	8.9	4.3	2.9	4.7	1.5
23	3.6	49	15	53	11	22	29	8.3	3.9	2.8	2.7	1.5
24	3.4	41	19	328	10	20	24	7.7	3.7	2.9	2.1	1.4
25	169	35	108	340	10	23	37	6.8	3.5	5.0	2.0	1.5
26	119	28	69	124	9.5	22	28	6.4	3.6	3.5	2.2	1.4
27	60	24	53	88	9.1	18	22	5.9	4.2	2.4	2.1	1.4
28	40	37	42	67	11	16	18	6.2	4.4	2.2	1.9	1.4
29	27	42	36	52	---	15	16	5.6	4.3	2.1	1.8	1.3
30	20	44	44	44	---	14	16	5.3	4.1	2.0	1.9	1.3
31	16	---	38	47	---	13	---	5.0	---	2.0	1.7	---
TOTAL	726.8	1743	886	2711	469.6	1513	813.9	1221.1	189.4	98.1	74.2	47.8
MEAN	23.4	58.1	28.6	87.5	16.8	48.8	27.1	39.4	6.31	3.16	2.39	1.57
MAX	169	590	108	340	38	312	182	297	28	5.0	4.7	2.2
MIN	3.1	11	14	24	9.1	10	8.5	5.0	3.5	2.0	1.7	1.3
CFSM	1.64	4.06	2.00	6.12	1.18	3.41	1.90	2.76	.44	.22	.17	.11
IN.	1.89	4.53	2.30	7.05	1.22	3.94	2.12	3.18	.49	.26	.19	.12

CAL YR 1977 TOTAL 11356.0 MEAN 31.1 MAX 590 MIN 1.2 CFSM 2.18 IN 29.54
WTR YR 1978 TOTAL 10493.1 MEAN 28.7 MAX 590 MIN 1.3 CFSM 2.01 IN 27.29

02388500 OOSTANAULA RIVER NEAR ROME, GA.

LOCATION.--Lat 34°18'02", long 85°08'30", Floyd County, Hydrologic Unit 03150103, on left bank 1.2 mi (1.9 km) upstream from Dry Creek, 4.5 mi (7.2 km) north of Rome, 4.5 mi (7.2 km) upstream from confluence with Etowah River, and 6.5 mi (10.5 km) downstream from Armuchee Creek.

DRAINAGE AREA.--2,120 mi^2 (5,490 km^2), approximately.

PERIOD OF RECORD.--October 1939 to current year, in reports of Geological Survey. Gage-height records collected at site 4.2 mi (6.8 km) downstream since 1890 are contained in reports of National Weather Service.

GAGE.--Water-stage recorder. Datum of gage is 561.70 ft (171.21 m) National Geodetic Vertical Datum of 1929. Oct. 1, 1939 to Dec. 7, 1950, water-stage recorder at site 3.2 mi (5.1 km) downstream at same datum. Since Oct. 1, 1939, auxiliary water-stage recorder at Fifth Avenue Bridge, 4.2 mi (6.8 km) downstream. Nonrecording gage at site of auxiliary gage used as base gage for records published as Coosa River at Rome, Jan. 1, 1897, to Dec. 31, 1903.

REMARKS.--Records good except those for period of no gage-height record, Nov. 24-28, Feb. 27 to Mar. 23, which are fair. Flow regulated by Carters Lake and re-regulation dam since 1975. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400 and 02382400.) Records of chemical analyses for the water years 1968-74, are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--39 years, 3,603 ft^3/s (102 m^3/s), 23.08 in/yr (586.2 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,000 ft^3/s (1,330 m^3/s) Jan. 23, 1947; maximum gage height, 35.13 ft (10.708 m) Jan. 22, 1947; minimum daily discharge, 408 ft^3/s (11.6 m^3/s) Oct. 25, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 40.3 ft (12.28 m) in April 1886, at site of present auxiliary gage, from information by Georgia Department of Archives.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,600 ft^3/s (612 m^3/s) Nov. 7; maximum gage height, 26.78 ft (8.163 m) Jan. 27 (backwater from Etowah River); minimum daily discharge, 527 ft^3/s (14.9 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2110	2220	5810	4680	8810	2730	2590	3610	1810	1680	775	1100
2	2280	2710	4770	3970	6580	2730	2390	6940	1450	972	836	1230
3	4520	2670	4500	3460	6020	3400	2350	7490	1370	893	825	702
4	5670	2910	4070	4040	6000	4680	3010	5550	1880	924	812	655
5	4360	9210	3390	3340	5220	4600	3090	4990	2050	905	1180	823
6	2310	18100	3460	3160	4070	4300	2280	5340	1870	865	1540	805
7	2110	21100	4200	4130	3400	3200	1910	4140	1630	880	1840	808
8	2150	18900	5170	5790	4080	3780	1910	5390	1990	891	1810	698
9	3410	15200	4900	12000	3550	6300	2530	12400	3670	826	3190	780
10	6570	12000	3610	15000	3650	16000	2480	14700	5000	739	3380	644
11	6300	9930	3710	14200	3810	18000	2370	13100	3550	751	2640	620
12	5120	6096	3110	12700	3270	15000	2490	10300	2580	811	2790	660
13	3100	5190	2680	10600	3370	13800	2830	6580	2830	772	1560	648
14	2080	4880	2660	7690	3520	11600	2890	4530	3720	745	1390	617
15	1810	4640	2770	6710	4120	10500	2700	3260	3410	844	2220	680
16	1570	4580	3550	5890	3510	9000	2270	2920	2180	1240	1440	690
17	1690	5180	3030	6530	3090	8600	2070	3280	1690	1800	1610	663
18	2080	7210	2970	8440	2490	6600	2450	3280	1500	1830	1200	637
19	1400	8100	4460	9360	2250	4590	4950	3690	1410	982	1470	700
20	1320	7110	4890	11600	2400	4300	6870	3800	1720	900	938	800
21	1260	5780	4220	12900	2180	4400	6280	3020	2080	1160	849	1270
22	1540	5350	3730	12800	2130	4200	4190	2100	1910	961	1220	787
23	1260	6740	3950	10300	2240	3700	2720	2560	1320	672	1320	620
24	1030	7720	3430	7550	2730	3300	2740	2310	1260	634	1320	574
25	2450	7520	7020	9750	2760	3600	2800	2500	1140	821	1260	585
26	9140	5600	9270	17100	2280	3600	3070	2050	1140	1820	1620	550
27	10500	4000	8230	19800	2030	3400	3540	2460	1170	1430	789	560
28	9910	2600	6350	18100	2880	3600	3950	2760	1250	1080	846	569
29	6930	4230	5920	17300	---	3700	3950	2540	1500	930	1210	568
30	3500	5640	4530	16400	---	3420	3010	2310	2260	756	1370	527
31	2510	---	4310	13300	---	2660	---	2280	---	726	1080	---
TOTAL	111990	223110	138670	308590	102440	193290	92680	152180	62340	31240	46330	21570
MEAN	3613	7437	4473	9955	3659	6235	3089	4909	2078	1008	1495	719
MAX	10500	21100	9270	19800	8810	18000	6870	14700	5000	1830	3380	1270
MIN	1030	2220	2660	3160	2030	2660	1910	2050	1140	634	775	527

CAL YR 1977 TOTAL 1668827 MEAN 4572 MAX 34000 MIN 560 MEAN† 4572 CFSM† 2.16 IN† 29.32

WTR YR 1978 TOTAL 1484430 MEAN 4067 MAX 21100 MIN 527 MEAN† 4066 CFSM† 1.92 IN† 26.06

† Adjusted for change in contents in Carters Lake and Carters re-regulation dam.

02388500 OOSTANAULA RIVER NEAR ROME, GA.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.39	8.03	13.47	10.20	18.45	7.96	8.21	8.97	7.22	6.67	5.05	5.89
2	7.70	8.64	12.39	9.50	16.00	7.98	7.41	12.86	6.72	5.18	5.18	5.89
3	10.22	8.58	11.73	9.37	15.43	8.88	7.40	13.36	6.83	5.01	5.14	4.53
4	11.55	9.17	9.53	10.01	13.91	10.21	8.43	11.34	6.68	5.48	5.15	4.40
5	9.97	18.51	9.15	9.22	10.81	10.65	8.60	10.81	6.93	5.44	5.79	4.83
6	7.51	25.37	10.95	9.12	9.87	9.81	7.48	11.13	7.04	5.36	6.20	4.79
7	7.21	25.98	11.69	10.26	11.19	8.47	6.94	9.60	6.70	5.39	6.70	4.80
8	7.29	23.63	12.74	11.98	11.95	9.62	6.94	11.26	7.34	5.44	6.95	4.78
9	10.59	21.20	12.33	20.61	11.37	12.17	7.61	20.77	9.63	4.84	8.74	5.29
10	13.70	20.39	9.65	21.75	11.41	20.97	7.55	21.41	11.14	4.64	9.29	4.37
11	12.23	18.88	9.12	20.82	9.55	22.47	7.59	19.35	8.91	5.05	8.15	4.30
12	11.12	15.02	8.65	20.18	8.58	20.46	7.76	18.36	7.68	5.17	8.15	4.87
13	8.99	13.88	9.03	18.44	8.84	18.63	8.20	14.44	8.62	5.06	6.20	4.85
14	7.69	13.53	9.04	15.44	9.44	16.93	8.27	11.26	9.72	5.02	5.95	4.89
15	7.23	13.26	9.19	13.51	10.01	16.23	8.02	10.50	9.25	5.26	7.78	4.91
16	6.28	13.19	9.77	12.92	9.39	15.88	7.24	10.37	7.65	5.70	6.72	4.96
17	6.53	13.91	8.29	13.91	8.92	14.97	6.96	10.84	6.98	6.57	6.88	4.42
18	7.17	15.91	8.21	16.05	8.17	12.29	7.76	10.74	6.14	6.78	6.23	4.38
19	6.33	15.80	9.97	16.77	7.22	10.16	11.75	11.24	6.01	5.49	6.72	5.13
20	6.16	14.17	10.69	19.61	7.59	10.00	13.06	10.92	6.96	5.59	5.10	5.12
21	6.12	12.07	9.94	20.19	7.80	10.75	12.15	8.26	7.50	5.74	4.90	5.93
22	6.38	12.80	9.43	18.16	7.84	10.30	9.82	7.00	7.23	5.42	6.44	5.07
23	5.76	14.25	9.46	16.12	7.91	9.66	7.89	8.34	6.39	4.45	6.50	4.68
24	5.68	15.20	9.03	15.31	8.55	9.41	7.96	8.72	6.25	4.35	6.48	4.18
25	8.48	15.05	12.61	19.52	8.39	9.20	8.54	9.06	5.53	5.16	6.53	4.20
26	16.19	13.96	15.09	25.63	7.22	8.95	9.20	8.46	5.50	6.77	6.55	4.59
27	16.90	12.10	15.08	26.21	6.82	9.00	9.73	8.99	6.31	6.20	4.75	4.60
28	16.00	9.80	13.23	25.13	8.18	10.02	10.15	7.93	6.04	5.65	4.89	4.16
29	12.87	11.82	12.81	24.81	---	10.30	9.48	7.63	6.99	5.75	5.95	4.15
30	8.85	13.29	11.42	24.00	---	9.33	8.26	7.91	7.53	4.66	6.28	4.48
31	7.85	---	10.93	22.17	---	8.43	---	7.87	---	4.59	5.88	---
MEAN	9.16	14.91	10.79	17.00	10.03	11.94	8.55	11.28	7.31	5.42	6.36	4.78
MAX	16.90	25.98	15.09	26.21	18.45	22.47	13.06	21.41	11.14	6.78	9.29	5.93
MIN	5.68	8.03	8.21	9.12	6.82	7.96	6.94	7.00	5.50	4.35	4.75	4.15

WTR YR 1978 MEAN 9.80 MAX 26.21 MIN 4.15

02388520 OOSTANAULA RIVER AT ROME, GA.

LOCATION.--Lat 34°16'13", long 85°10'24", Floyd County, Hydrologic Unit 03150103, at Southern Railway bridge at pumping station at city of Rome water works, 1.2 mi (1.9 km) upstream from confluence with Etowah River.

DRAINAGE AREA.--2,150 mi^2 (5,570 km^2), approximately.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Flow regulated by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400, 02382400). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
27...	0830	10200	7.2	14.0	15.0	6.6
NOV						
30...	0845	5300	7.2	16.0	13.0	8.8
DEC						
29...	0915	5650	6.9	-4.0	5.5	11.2
JAN						
24...	1115	8080	7.2	9.0	5.5	10.8
FEB						
23...	0730	1990	7.5	2.0	6.0	10.9
MAR						
29...	0815	3620	7.5	7.0	11.0	10.0
APR						
27...	0745	2980	7.2	10.0	13.0	7.8
MAY						
31...	0830	2000	7.2	22.0	22.0	6.8
JUN						
27...	1300	1670	7.3	34.0	27.0	6.2
JUL						
26...	1210	2020	7.3	29.0	26.5	5.2
AUG						
28...	1515	882	7.5	33.0	27.0	5.8
SEP						
27...	1330	750	7.1	29.0	24.0	5.6

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, CON-FIRMED (MPN)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)
OCT							
27...	94	72	--	2.9	230000	7500	39
NOV							
30...	111	16	--	1.9	21000	2300	50
DEC							
29...	79	21	--	2.2	7500	230	35
JAN							
24...	145	20	--	.1	9300	930	36
FEB							
23...	143	7	--	.7	430	90	58
MAR							
29...	99	17	--	.7	930	150	42
APR							
27...	105	22	--	1.2	4300	750	43
MAY							
31...	103	14	--	1.1	--	230	44
JUN							
27...	139	15	--	.7	7500	430	60
JUL							
26...	153	44	19	1.8	93000	4300	64
AUG							
28...	151	13	12	.9	2300	230	70
SEP							
27...	179	10	15	.8	7500	430	--

02388520 OOSTANAULA RIVER AT ROME, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 27...	--	126	.18	<.02	--	.26	14
NOV 30...	--	10	.38	<.02	--	.09	1.0
DEC 29...	--	21	.28	.02	--	.09	4.0
JAN 24...	--	12	.36	<.02	--	.05	2.0
FEB 23...	--	7	.43	.06	--	.07	<1.0
MAR 29...	--	15	.31	<.02	--	.07	2.5
APR 27...	--	42	.41	.02	--	.13	3.0
MAY 31...	--	14	.38	<.02	--	.10	3.0
JUN 27...	--	25	.55	.08	--	.24	1.5
JUL 26...	57	75	.52	.04	.40	.42	4.0
AUG 28...	53	19	.40	<.02	.18	.32	4.0
SEP 27...	61	16	.43	.03	.34	.46	3.0

02389000 ETOWAH RIVER NEAR DAWSONVILLE, GA.

LOCATION.--Lat 34°22'57", long 84°03'21", Dawson County, Hydrologic Unit 03150104, on left bank 0.4 mi (0.6 km) upstream from Palmer Creek, 0.5 mi (0.8 km) upstream from bridge on State Highway 53, 1.2 mi (1.9 km) downstream from Russell Creek, 4 mi (6.4 km) southeast of Dawsonville, and 7.5 mi (12.1 km) upstream from Shoal Creek.
DRAINAGE AREA.--103 mi^2 (267 km^2).
PERIOD OF RECORD.--November 1970 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
JUN					
28...	0730	150	6.4	23.0	7.7
SEP					
26...	0700	115	6.4	19.0	8.8

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	COLOR (PLAT-INUM-COBALT UNITS)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)	ALKA-LINITY (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)
JUN												
28...	20	2	4	0	.7	.5	1.5	.8	7	0	6	.6
SEP												
26...	21	20	6	0	1.3	.7	1.9	.9	18	0	15	.2

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)
JUN												
28...	1.3	.0	8.9	30	.06	.27	.00	.00	.05	.05	.00	.00
SEP												
26...	.8	.0	9.9	24	.04	.18	.00	.00	.03	.04	.00	.00

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, NH4 + ORG. SUSP. TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS NO3)	PHOS-PHORUS, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)
JUN												
28...	.00	.15	.06	.15	.09	.06	.20	.89	.01	.00	.00	.00
SEP												
26...	.00	.34	.24	.34	.10	.24	.37	1.6	.01	.00	.00	.00

DATE	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4)	ALUM-INUM, DIS-SOLVED (UG/L AS AL)	ARSENIC DIS-SOLVED (UG/L AS AS)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	ZINC, DIS-SOLVED (UG/L AS ZN)	CARBON, ORGANIC TOTAL (MG/L AS C)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C)
JUN												
28...	.00	40	1	0	6	40	20	<.5	0	10	11	7.3
SEP												
26...	.00	40	0	0	1	90	20	<.5	0	10	1.6	1.1

02392000 ETOWAH RIVER AT CANTON, GA.

LOCATION.--Lat 34°14'23", long 84°29'47", Cherokee County, Hydrologic Unit 03150104, on left bank 100 ft (30 m) downstream from bridge on State Highway 5 spur and 140 at Canton, 0.8 mi (1.3 km) upstream from Canton Creek, and 1.8 mi (2.9 km) downstream from Hickory Log Creek.

DRAINAGE AREA.--605 mi^2 (1,570 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1892 to December 1905 (prior to 1896, gage heights only), October 1936 to current year. Monthly discharge only for some periods, published in WSP 1304. Gage heights collected at same site since 1892 are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1906: 1946(M).

GAGE.--Water-stage recorder. Datum of gage is 844.55 ft (257.42 m) National Geodetic Vertical Datum of 1929. March 1892 to December 1905, nonrecording gage at site 100 ft (30 m) upstream at datum 2.0 ft (0.61 m) higher. Mar. 16, 1937 to Jan. 17, 1939, nonrecording gage at site 100 ft (30 m) upstream at present datum. Water-stage recorder at Allatoona Reservoir is used as an auxiliary gage for this station.

REMARKS.--Records good.

AVERAGE DISCHARGE.--51 years (1896-1905, 1936-78), 1,245 ft^3/s (35.3 m^3/s), 27.94 in/yr (709.7 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,300 ft^3/s (915 m^3/s) Jan. 7, 1946, gage height, 26.7 ft (8.14 m); minimum, 178 ft^3/s (5.04 m^3/s) Sept. 29, 30, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 36,700 ft^3/s (1,040 m^3/s) in January 1892, gage height, 25.0 ft (7.62 m), present datum, from National Weather Service.

Maximum stage known since at least 1892, that of Jan. 7, 1946.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 6,500 ft^3/s (184 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 9	2000	8920	253	16.02	4.883
Nov. 6	1700	*17200	487	21.96	6.693
Jan. 26	1500	13100	368	19.13	5.831

Minimum daily discharge, 396 ft^3/s (11.2 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	536	820	1990	1600	2330	1490	1270	1750	997	623	888	650
2	2230	796	2160	1510	2240	1440	1250	1780	968	608	720	623
3	1970	784	1560	1410	2160	1600	1240	1500	971	591	543	628
4	1040	1230	1680	1340	2060	1760	1230	1540	964	569	1240	615
5	808	6490	1420	1300	1990	1590	1210	1730	931	550	2910	582
6	685	16100	1390	1500	1940	1490	1200	1510	908	539	2130	566
7	613	10300	1480	1940	1880	1460	1180	1430	947	536	3720	566
8	632	4020	1210	2480	1850	1510	1150	2120	1490	541	2750	549
9	6370	2900	1400	5950	1820	1960	1140	4440	2080	523	2050	532
10	3990	2330	1530	3280	1790	4820	1130	2820	1400	546	4080	513
11	1830	1920	1190	2400	1760	3230	1150	2080	1110	586	2130	501
12	1340	1710	1120	2090	1720	2400	1390	1790	1080	519	1790	514
13	1120	1590	1230	1970	1790	2070	1300	1770	1120	501	1630	545
14	976	1450	1300	1870	1910	2010	1230	1790	1080	540	1350	535
15	859	1370	1590	1730	1740	2070	1130	1580	960	708	1140	542
16	800	1330	1430	1620	1680	1860	1100	1530	916	1340	1240	565
17	736	1670	1350	1910	1640	1740	1080	1430	890	881	1090	549
18	695	1680	1900	2500	1620	1680	1170	1370	862	660	1000	516
19	666	1390	1820	2130	1610	1600	3250	1340	849	583	987	488
20	628	1210	1560	3940	1570	1540	2450	1270	842	555	926	465
21	601	1160	1290	3190	1550	1530	1710	1220	860	529	869	450
22	590	1140	1190	2430	1540	1520	1470	1180	833	511	816	437
23	575	1140	1130	2130	1520	1490	1350	1140	796	493	780	434
24	566	1130	1110	2010	1510	1440	1290	1240	763	521	744	437
25	813	1100	2940	5220	1490	1420	1550	1160	743	526	724	464
26	3750	1060	2770	12000	1470	1440	1740	1090	726	518	717	468
27	2000	1040	1970	7060	1440	1430	1520	1080	711	509	714	445
28	1360	1180	1690	3700	1440	1370	1370	1080	683	549	724	421
29	1110	2010	1530	3060	---	1330	1290	1070	656	536	712	409
30	980	1780	1530	2710	---	1310	1250	1050	641	476	679	396
31	888	---	1770	2500	---	1280	---	1030	---	470	669	---
TOTAL	41757	73830	49230	90480	49060	54880	41790	48910	28777	18137	42462	15405
MEAN	1347	2461	1588	2919	1752	1770	1393	1578	959	585	1370	514
MAX	6370	16100	2940	12000	2330	4820	3250	4440	2080	1340	4080	650
MIN	536	784	1110	1300	1440	1280	1080	1030	641	470	543	396
CFSM	2.23	4.07	2.63	4.83	2.90	2.93	2.30	2.61	1.59	.97	2.26	.85
IN.	2.57	4.54	3.03	5.56	3.02	3.37	2.57	3.01	1.77	1.12	2.61	.95

CAL YR 1977 TOTAL 524280 MEAN 1436 MAX 16600 MIN 373 CFSM 2.37 IN 32.24
WTR YR 1978 TOTAL 554718 MEAN 1520 MAX 16100 MIN 396 CFSM 2.51 IN 34.11

02392000 ETOWAH RIVER AT CANTON, GA.--Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.25	3.00	5.07	4.41	5.87	4.19	3.74	4.71	3.14	2.34	3.09	2.30
2	5.89	2.94	5.43	4.21	5.68	4.09	3.70	4.76	3.07	2.30	2.67	2.24
3	5.64	2.91	4.75	4.02	5.52	4.39	3.69	4.20	3.08	2.27	2.23	2.25
4	3.55	3.99	4.41	3.88	5.31	4.73	3.65	4.28	3.06	2.21	3.68	2.23
5	2.97	12.57	4.38	3.80	5.19	4.39	3.61	4.67	2.98	2.17	7.09	2.15
6	2.66	21.17	4.42	4.20	5.09	4.19	3.59	4.22	2.92	2.15	5.55	2.11
7	2.48	16.35	4.07	5.09	4.97	4.11	3.56	4.05	3.01	2.15	8.58	2.11
8	2.53	9.37	3.87	4.12	4.89	4.22	3.51	5.42	4.19	2.16	6.78	2.08
9	12.52	7.59	3.90	12.04	4.84	5.13	3.47	9.73	5.37	2.13	5.37	2.04
10	9.16	6.46	4.16	7.72	4.79	10.33	3.45	6.83	4.02	2.19	9.17	2.00
11	5.43	5.64	3.83	6.01	4.72	7.61	3.49	5.35	3.44	2.29	5.54	1.97
12	4.31	5.21	3.64	5.38	4.64	5.99	3.97	4.78	3.39	2.13	4.85	2.01
13	3.75	4.92	3.57	5.15	4.78	5.34	3.79	4.74	3.48	2.09	4.52	2.09
14	3.39	4.58	3.71	4.95	5.02	5.22	3.66	4.78	3.39	2.19	3.96	2.08
15	3.10	4.38	4.28	4.65	4.68	5.34	3.46	4.37	3.09	2.62	3.52	2.10
16	2.95	4.27	3.96	4.43	4.55	4.93	3.40	4.26	2.99	4.05	3.72	2.16
17	2.79	5.12	3.80	5.02	4.48	4.68	3.36	4.06	2.93	3.06	3.42	2.12
18	2.69	5.15	4.85	6.21	4.44	4.57	3.55	3.93	2.86	2.51	3.19	2.05
19	2.61	4.43	4.69	5.47	4.43	4.39	7.60	3.89	2.83	2.32	3.16	1.98
20	2.52	3.98	4.16	8.84	4.35	4.29	6.10	3.74	2.82	2.26	3.00	1.93
21	2.45	3.84	3.93	7.54	4.30	4.25	4.62	3.64	2.87	2.19	2.85	1.90
22	2.43	3.79	3.76	6.05	4.28	4.25	4.14	3.55	2.81	2.15	2.72	1.87
23	2.38	3.80	3.65	5.47	4.23	4.18	3.91	3.48	2.72	2.10	2.62	1.86
24	2.35	3.77	3.60	5.22	4.22	4.08	3.78	3.68	2.65	2.17	2.53	1.88
25	2.97	3.70	6.99	10.66	4.17	4.03	4.29	3.51	2.60	2.18	2.47	1.95
26	8.92	3.60	6.73	18.47	4.13	4.07	4.69	3.39	2.56	2.17	2.45	1.97
27	5.78	3.55	5.13	13.16	4.08	4.06	4.24	3.35	2.53	2.14	2.44	1.91
28	4.35	3.90	4.59	8.49	4.08	3.94	3.95	3.34	2.47	2.24	2.46	1.86
29	3.72	5.11	4.26	7.33	---	3.87	3.78	3.32	2.41	2.21	2.44	1.83
30	3.40	4.66	4.26	6.62	---	3.81	3.70	3.27	2.37	2.06	2.36	1.81
31	3.17	---	4.74	6.19	---	3.76	---	3.23	---	2.05	2.34	---
MEAN	4.04	5.79	4.41	6.67	4.70	4.72	3.98	4.34	3.07	2.30	3.90	2.03
MAX	12.52	21.17	6.99	18.47	5.87	10.33	7.60	9.73	5.37	4.05	9.17	2.30
MIN	2.25	2.91	3.57	3.80	4.08	3.76	3.36	3.23	2.37	2.05	2.23	1.81

WTR YR 1978 MEAN 4.16 MAX 21.17 MIN 1.81

02392000 ETOWAH RIVER AT CANTON, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.
PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: June 1971 to September 1976 (discontinued).
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.
EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURES: Maximum, 26.0°C July 24, 1972; minimum recorded, 2.5°C Dec. 26, 1975.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURES: Maximum, 25.0°C July 26, 27; minimum recorded, 2.5°C Dec. 26.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV						
28...	1145	1120	7.5	8.0	7.0	11.6
DEC						
29...	1415	1520	7.0	7.5	6.5	11.7
JAN						
23...	0800	2170	6.5	-3.0	4.0	--
FEB						
23...	1300	1510	6.9	5.5	4.0	11.9
APR						
24...	0800	1290	7.0	16.0	13.0	9.6
JUL						
26...	0730	520	7.0	21.5	23.0	7.1

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV									
28...	34	15	.6	490	--	.18	<.02	.03	2.0
DEC									
29...	32	16	1.1	150	--	.21	<.02	.03	2.0
JAN									
23...	31	21	.5	750	--	.29	<.02	.03	<1.0
FEB									
23...	30	9	.3	40	--	.19	<.02	.02	3.0
APR									
24...	32	20	.6	930	--	.16	<.02	.02	5.0
JUL									
26...	35	10	.9	230	15	.18	<.02	.03	<1.0

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.

LOCATION.--Lat 34°09'47", long 84°44'28", Bartow County, Hydrologic Unit 03150104, on right bank 0.8 mi (1.3 km) downstream from Allatoona Dam, 2 mi (3.2 km) upstream from Nashville, Chattanooga, & St. Louis Railway bridge, and 3 mi (4.8 km) east of Cartersville.

DRAINAGE AREA.--1,110 mi^2 (2,870 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1938 to current year. Prior to October 1949, published as Etowah River above Cartersville.

REVISED RECORDS.--WSP 1032: 1944.

GAGE.--Water-stage recorder. Datum of gage is 686.92 ft (209.37 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Prior to Dec. 19, 1938, nonrecording gage at same site and datum.

REMARKS.--Flow regulated by Allatoona Reservoir since December 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)

COOPERATION.--Gage-height record, 10 discharge measurements, and computation of daily discharge furnished by Corps of Engineers; records reviewed by Geological Survey.

AVERAGE DISCHARGE.--40 years, 1,897 ft^3/s (53.7 m^3/s), 23.21 in/yr (589.5 mm/yr), adjusted for storage since 1950.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 40,400 ft^3/s (1,140 m^3/s) Jan. 8, 1946, gage height, 20.8 ft (6.34 m), from rating curve extended above 26,000 ft^3/s (736 m^3/s); minimum daily, 152 ft^3/s (4.30 m^3/s) Oct. 15, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,290 ft^3/s (263 m^3/s) Feb. 3, gage height, 7.28 ft (2.219 m); minimum daily, 307 ft^3/s (8.69 m^3/s) Aug. 12, Sept. 24, 28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1010	3320	5800	418	8790	1150	359	1350	2240	336	1310	2690
2	1070	3270	5830	2840	8870	1150	359	1300	2240	332	1300	335
3	1550	3380	430	2860	9010	1130	1380	1300	344	1560	1310	342
4	1590	3370	394	2830	551	348	1600	1340	340	1560	1310	1330
5	1560	406	5840	2870	394	348	1410	1340	1640	1560	325	1330
6	1550	382	5900	2860	6380	1660	1360	359	1660	1560	325	1320
7	1560	962	5870	455	6570	1660	1420	359	1660	1570	1300	1320
8	914	2270	5970	468	6590	1650	370	2690	1660	319	1300	2240
9	1040	5640	3360	2530	6870	1680	370	1060	1630	323	1300	318
10	1110	8170	418	3610	2460	1660	1480	2580	345	1300	1290	316
11	2110	8160	418	6080	394	348	1420	4820	335	1310	1270	1320
12	2860	8260	4020	6020	382	337	1360	6780	2050	1310	307	1320
13	2900	8300	4070	6060	2540	2080	1360	3740	2040	1320	311	1500
14	2900	8270	4060	3940	2510	2140	1370	3760	2040	1320	2420	1310
15	1000	8350	4080	3960	2520	2160	394	5780	2040	331	2440	1310
16	1000	8400	579	4680	2520	2130	382	5820	2040	327	2410	314
17	2060	8420	406	4730	2750	2080	1360	5810	338	1460	2420	315
18	2050	8440	904	4670	382	348	1410	5790	339	1300	2850	1760
19	2050	5720	1710	4700	370	337	1320	5910	1960	2040	313	1390
20	2060	2020	1700	4700	2620	2320	1370	326	1970	1270	315	1300
21	2090	5740	1710	406	2750	2310	1340	326	1970	1300	3590	1300
22	1090	5820	1700	394	2660	2390	394	2290	1970	321	3600	1310
23	1090	5810	1720	5660	2610	2260	406	3620	1970	327	3600	322
24	2940	5920	442	5660	2690	2310	1990	4020	336	1310	3610	307
25	2940	5930	430	1220	359	359	2830	4020	342	1290	3620	1310
26	2940	5420	4540	2100	370	348	3000	4320	2320	1300	325	1310
27	2940	2060	4370	4400	1140	2570	2940	337	1560	1300	326	314
28	2940	5760	4550	8610	1150	2780	1510	337	2750	2350	2640	307
29	359	5700	4590	8660	---	2760	359	2230	1550	327	2980	1320
30	1070	5800	4610	8690	---	2760	370	2250	1560	326	2660	309
31	3340	---	430	8730	---	2780	---	2230	---	1290	2670	---
TOTAL	57683	159470	90851	125811	87202	50343	36993	88194	45239	33849	55747	31489
MEAN	1861	5316	2931	4058	3114	1624	1233	2845	1508	1092	1798	1050
MAX	3340	8440	5970	8730	9010	2780	3000	6780	2750	2350	3620	2690
MIN	359	382	394	394	359	337	359	326	335	319	307	307
MEAN†	2399	4195	2425	5169	2590	2678	2107	2643	1414	814	1814	596
CFSM†	2.16	3.78	2.18	4.66	2.33	2.41	1.90	2.38	1.27	0.73	1.63	0.54
IN†	2.49	4.22	2.51	5.37	2.43	2.78	2.12	2.74	1.42	0.84	1.88	0.60

CAL YR 1977 TOTAL 866985 MEAN 2375 MAX 8440 MIN 263 MEAN† 2381 CFSM† 2.15 IN† 29.18
WTR YR 1978 TOTAL 862871 MEAN 2364 MAX 9010 MIN 307 MEAN† 2406 CFSM† 2.17 IN† 29.46

† Adjusted for change in contents in Allatoona Reservoir.

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
25...	0805	8190	7.0	16.5	17.0	7.6
DEC						
01...	0930	8340	6.5	13.5	12.5	8.6
27...	1000	8550	6.9	-1.5	8.0	8.7
JAN						
23...	0945	8710	6.9	-3.0	3.0	11.7
FEB						
23...	1115	7720	6.7	3.0	5.0	11.7
MAR						
27...	0830	5770	6.7	5.0	7.5	11.0
APR						
24...	0935	4090	6.8	21.0	13.0	9.8
JUN						
28...	1245	8340	6.7	31.0	21.5	5.4
AUG						
28...	1025	326	6.7	29.0	25.0	5.8

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY (MG/L AS CACO3)
OCT						
25...	47	15	.8	40	34	--
DEC						
01...	41	7	.5	40	--	--
27...	40	16	.8	<30	--	--
JAN						
23...	39	27	.9	<30	--	--
FEB						
23...	35	40	.5	<30	--	--
MAR						
27...	37	24	.6	<30	--	--
APR						
24...	38	11	.5	40	--	--
JUN						
28...	42	6	1.7	40	--	--
AUG						
28...	47	5	.6	<30	--	16

02394000 ETOWAH RIVER AT ALLATOONA DAM, ABOVE CARTERSVILLE, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUS- PENDED (MG/L)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N)	PHOS- PHORUS, TOTAL (MG/L AS P)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT							
25...	15	.17	.04	.02	530	70	2.0
DEC							
01...	10	.20	.04	.03	820	50	3.0
27...	2	.24	.05	.02	500	65	2.0
JAN							
23...	9	.28	.06	.03	--	--	1.0
FEB							
23...	21	.28	.05	.09	1900	60	1.0
MAR							
27...	7	.30	<.02	.03	880	<50	<1.0
APR							
24...	3	.23	.02	<.02	340	100	5.0
JUN							
28...	5	.17	.07	.03	170	140	1.5
AUG							
28...	<1	.16	<.02	<.02	195	110	2.0

02394980 ETOWAH RIVER NEAR EUHARLEE, GA.

LOCATION.--Lat 34°11'28", long 84°55'44", Bartow County, Hydrologic Unit 03150104, at Harden Bridge on county road, 1,000 ft (305 m) downstream from Ashpole Creek, and 3 mi (4.8 km) north of Euharlee.
DRAINAGE AREA.--1,600 mi^2 (4,100 km^2), approximately.
PERIOD OF RECORD.--August 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Flow regulated by Allatoona Reservoir. (See "Lakes and Reservoirs in Mobile River Basin", station 02393500.)

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT						
25...	0925	788	7.5	16.5	17.0	8.1
DEC						
01...	1445	8090	7.0	12.5	13.0	10.0
29...	1245	3570	7.5	4.0	6.5	10.9
JAN						
23...	1110	1440	7.5	.0	6.5	10.8
FEB						
23...	1030	1510	7.6	2.0	5.5	11.9
MAR						
27...	0945	874	7.5	5.5	11.5	9.0
APR						
24...	1100	698	7.8	21.0	15.5	9.4
MAY						
31...	1315	788	7.7	31.0	20.0	9.2
JUN						
28...	1145	746	7.5	32.5	23.0	7.8
JUL						
26...	0930	770	7.2	27.0	23.0	6.9
AUG						
28...	1150	710	7.8	30.5	25.0	7.0
SEP						
27...	0930	644	7.2	22.5	23.0	6.8

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	HARDNESS (MG/L AS CACO3)	ALKALINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
25...	81	20	.7	430	30	--	16	.26	<.02	.06	3.0
DEC											
01...	52	9	.7	290	20	--	27	.24	.02	.06	3.0
29...	100	21	1.1	4300	45	--	11	.34	.02	.07	3.0
JAN											
23...	122	34	.7	160	54	--	11	.49	.04	.05	1.0
FEB											
23...	105	54	1.3	930	43	--	18	.43	.04	.10	<1.0
MAR											
27...	157	21	.8	90	72	--	9	.49	<.02	.09	<1.0
APR											
24...	136	16	.8	210	61	--	6	.38	<.02	.06	4.0
MAY											
31...	122	10	.8	90	--	--	3	.35	<.02	.04	2.0
JUN											
28...	124	9	.9	40	52	--	7	.22	.03	.06	1.5
JUL											
26...	73	11	.6	130	32	27	21	.23	.03	.04	<1.0
AUG											
28...	145	13	.3	430	78	57	5	.36	<.02	.06	2.0
SEP											
27...	82	7	.2	90	--	42	5	.15	.02	--	<1.0

02395000 ETOWAH RIVER NEAR KINGSTON, GA.

LOCATION.--Lat 34°12'24", long 84°58'44", Bartow County, Hydrologic Unit 03150104, on downstream side of center pier of bridge on U.S. Highway 411, 1 mi (1.6 km) upstream from Two Run Creek, 1.5 mi (2.4 km) upstream from Connesena Creek, and 2.5 mi (4.0 km) southwest of Kingston.

DRAINAGE AREA.--1,630 mi^2 (4,220 km^2), approximately.

PERIOD OF RECORD.--July 1928 to December 1931, October 1936 to current year. Monthly discharge only for some periods, published in WSP 1304, 1734.

REVISED RECORDS.--WSP 1304: 1929-30.

GAGE.--Water-stage recorder. Datum of gage is 609.97 ft (185.92 m) National Geodetic Vertical Datum of 1929 (Dixie Construction Co. bench mark). Prior to Aug. 11, 1928, nonrecording gage, Aug. 11, 1928, to Dec. 28, 1931, water-stage recorder, Nov. 16, 1936, to June 15, 1937, nonrecording gage, and June 16, 1937, to June 27, 1960, water-stage recorder, all 500 ft (152 m) upstream at same datum.

REMARKS.--Records good. Flow regulated by Allatoona Reservoir since December 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.) Records of chemical analyses for the water years 1970-74 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--45 years, 2,558 ft^3/s (72.4 m^3/s), 21.31 in/yr (541.3 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,700 ft^3/s (1,210 m^3/s) Apr. 9, 1938, gage height, 27.7 ft (8.44 m); minimum daily, 268 ft^3/s (7.59 m^3/s) Oct. 19, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, about 31 ft (9.4 m) Dec. 11, 1919, from information by local resident, discharge, 52,000 ft^3/s (1,470 m^3/s).

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,000 ft^3/s (368 m^3/s) May 9, gage height, 13.11 ft (3.996 m); minimum daily, 530 ft^3/s (15.0 m^3/s) Sept. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1410	3450	6290	991	9320	1760	1920	1120	2580	1320	1490	2730
2	1270	3450	6320	1910	9370	1660	899	2380	2620	658	1520	1460
3	1520	3390	2980	3140	9440	1750	870	2080	2030	917	1530	620
4	1620	4220	1090	3130	4040	1550	1910	2250	962	1800	1610	1070
5	1740	8720	4640	3120	1240	972	1940	2410	1630	1720	1200	1540
6	1640	10400	5230	3310	4430	1460	1780	2100	2050	1830	653	1350
7	1680	4670	6100	2740	6920	2120	1780	1220	2080	1790	2260	1380
8	1960	3500	6180	3680	6940	2170	1770	3500	2740	1620	2100	1680
9	6420	5500	5440	8150	6950	2320	810	9090	3330	628	2310	1190
10	3850	8540	2610	5330	5510	5090	842	4970	1770	853	2870	546
11	2780	8250	965	7390	1150	3170	1780	4680	1110	1560	2060	950
12	3110	8470	2450	6640	1150	1690	1820	7290	1880	1570	1440	910
13	3230	8310	4320	6710	2030	2280	1790	5240	3150	1520	945	1600
14	3060	8380	4310	4970	3230	3140	1810	4200	2780	1530	1950	1320
15	1940	8320	4390	4060	2420	3270	1720	6030	2580	1490	2730	1520
16	1360	8410	2750	5100	2990	3020	847	6180	2530	783	2720	870
17	2100	8600	1050	5100	3090	2900	829	6180	1610	753	2660	600
18	2010	8660	970	5700	2020	1940	1820	6180	881	1580	3030	1320
19	2190	6370	1430	5550	999	1110	3170	6180	1580	2000	1540	1690
20	2100	2950	2160	7650	2250	1970	2370	2970	2330	1910	684	1510
21	2400	5250	2090	4060	3160	2850	1980	1060	2310	1360	2250	1500
22	1550	5990	2720	1900	3150	2860	1910	1810	2310	1420	3620	1490
23	1220	6170	1430	4520	3090	2820	919	3430	2330	608	3680	840
24	2490	6160	2070	6440	3110	2820	1540	4350	1460	720	3660	530
25	3450	6240	1190	8830	1860	1920	3130	4470	747	1480	3820	1070
26	5090	6080	2910	11200	945	1000	3520	4680	1430	1620	1860	1470
27	3980	2780	4800	7070	1170	2100	3520	2690	2400	1520	716	921
28	3460	5620	4820	9760	1690	3140	3380	920	2690	2050	1860	538
29	1850	6320	4810	9630	---	3130	941	1750	1980	1880	2730	1040
30	998	6240	4850	9520	---	3110	917	2630	1850	561	2930	869
31	2710	---	3070	9400	---	3100	---	2630	---	979	2750	---
TOTAL	76188	189410	106435	176701	104164	74192	54234	116670	61730	42030	67178	36124
MEAN	2458	6314	3433	5700	3720	2393	1808	3764	2058	1356	2167	1204
MAX	6420	10400	6320	11200	9440	5090	3520	9090	3330	2050	3820	2730
MIN	998	2780	965	991	945	972	810	920	747	561	653	530

CAL YR 1977 TOTAL 1176750 MEAN 3224 MAX 26600 MIN 866 MEAN† 3230 CFSM† 1.98 IN† 26.88
WTR YR 1978 TOTAL 1105056 MEAN 3028 MAX 11200 MIN 530 MEAN† 3070 CFSM† 1.88 IN† 25.52

† Adjusted for change in contents in Allatoona Reservoir.

02396000 ETOWAH RIVER AT ROME, GA.

LOCATION.--Lat 34°15'26", long 85°09'30", Floyd County, Hydrologic Unit 03150104, on downstream side of center pier of Southern Railway bridge in Rome, 2 mi (3.2 km) upstream from confluence with Oostanaula River.

DRAINAGE AREA.--1,810 mi^2 (4,690 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to December 1903, August 1904 to June 1921 (published as "near Rome"), October 1938 to current year. Monthly discharge only for some periods, published in WSP 1304.

GAGE.--Water-stage recorder. Datum of gage is 561.70 ft (171.21 m) National Geodetic Vertical Datum of 1929. July 1 to Dec. 31, 1903, nonrecording gage at Second Avenue Bridge, 1 mi (1.6 km) downstream at different datum. Aug. 17, 1904, to June 30, 1921, nonrecording gage at Freemans Ferry, 5 mi (8.0 km) upstream at different datum. Since May 15, 1939, auxiliary water-stage recorder at Second Avenue Bridge, 1 mi (1.6 km) downstream.

REMARKS.--Records good except those for periods of no base gage-height record, Oct. 1-17, Nov. 25-28, Dec. 8 to Jan. 9, Sept. 14-18, which are fair. Flow regulated by Allatoona Reservoir since 1949. (See "Lakes and Reservoirs in Mobile River Basin," station 02393500.)

AVERAGE DISCHARGE.--56 years (1904-20, 1938-78), 2,949 ft^3/s (83.5 m^3/s), 22.13 in/yr (562.1 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 55,000 ft^3/s (1,560 m^3/s) Dec. 11, 1919, gage height, over 28 ft (8.5 m), at former site at Freemans Ferry, computed from data at upstream stations; minimum daily, 360 ft^3/s (10.2 m^3/s) Oct. 10, 1904.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known, that of Dec. 11, 1919.

Flood of Apr. 9, 1938, reached a stage of 37.5 ft (11.43 m), discharge, 46,500 ft^3/s (1,320 m^3/s), from gage readings and discharge measurements by Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15,600 ft^3/s (442 m^3/s) Jan. 26; maximum gage height, 24.88 ft (7.583 m) Jan. 26 (backwater from Oostanaula River); minimum daily discharge, 736 ft^3/s (20.8 m^3/s) Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1550	3580	6470	1200	9920	2080	2830	1310	2860	2070	1750	2910
2	1510	3620	6490	1600	9650	1980	1190	2640	2860	943	1770	2900
3	1800	3550	5340	2500	9680	2050	1150	2600	3080	952	1730	755
4	2000	4090	1490	3000	6390	1960	2080	2480	1250	2020	1820	763
5	2400	8660	2800	3100	1890	1380	2300	2730	1110	2040	1780	1670
6	2250	12900	6290	3400	3080	1540	2100	2480	2290	2030	804	1680
7	2100	8610	6000	3000	7200	2460	2080	1480	2340	2080	1880	1640
8	2100	5620	5800	3000	7210	2420	2020	2570	2840	2080	2420	1670
9	5700	5610	5400	10200	7240	2620	1100	10100	3410	976	2450	2470
10	5200	9020	2800	7330	6990	6140	1050	6630	3040	960	3220	736
11	2000	8860	1200	6840	2320	5120	2050	4730	1470	1830	2560	741
12	3000	8400	1750	7680	1540	3030	2060	7610	1290	1830	2040	1630
13	3700	8260	4200	7450	2160	2960	2100	6410	3210	1790	1170	1610
14	3500	8260	4300	6730	3530	3850	2030	4580	3120	1820	1080	1900
15	3200	8260	4300	4930	3350	4010	2030	5280	2880	1840	2890	1800
16	1900	8290	3200	5420	3380	3650	1060	6400	2790	945	2890	1400
17	2130	8540	4500	5950	3410	3480	1040	6450	2730	869	2850	780
18	2140	8560	1250	6630	3110	2820	2090	6360	1080	1730	2890	750
19	2380	6770	1200	6380	1410	1610	4000	6370	1050	1790	3150	2060
20	2260	5270	2100	8300	2010	1930	3270	5040	2550	2450	1090	1740
21	2260	3750	2200	6850	3520	3210	2580	1360	2560	1750	1210	1650
22	1940	6120	2500	3240	3610	3220	2310	1310	2550	1760	3810	1650
23	1430	6280	1800	3780	3450	3210	1300	3340	2570	1060	3780	1660
24	2190	6390	2000	6850	3480	3150	1540	4600	2490	1030	3820	772
25	3370	5500	1100	10900	2760	2710	3240	4760	947	1780	3810	751
26	5330	5000	1700	14700	1270	1360	3850	4870	923	1730	3730	1660
27	4660	5400	4200	10500	1350	1920	3860	4540	2780	1730	1150	1660
28	3940	4100	4400	11000	1980	3420	3780	1210	2070	1740	1060	775
29	2860	6450	4400	11300	---	3420	1680	1160	3090	2630	2680	801
30	1130	6460	4500	10800	---	3440	1240	2900	2070	1020	3190	1650
31	2390	---	3600	10400	---	3420	---	2890	---	1010	2870	---
TOTAL	84320	200180	109280	204960	116890	89570	65010	127190	69300	50285	73344	44634
MEAN	2720	6673	3525	6612	4175	2889	2167	4103	2310	1622	2366	1488
MAX	5700	12900	6490	14700	9920	6140	4000	10100	3410	2630	3820	2910
MIN	1130	3550	1100	1200	1270	1360	1040	1160	923	869	804	736

CAL YR 1977 TOTAL 1323010 MEAN 3625 MAX 27400 MIN 1100 MEAN† 3631 CFSM† 2.01 IN† 27.28
WTR YR 1978 TOTAL 1234963 MEAN 3383 MAX 14700 MIN 736 MEAN† 3425 CFSM† 1.89 IN† 25.66

† Adjusted for change in contents in Allatoona Reservoir.

02396000 ETOWAH RIVER AT ROME, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
27...	0945	5000	7.4	19.5	16.0	8.5
NOV						
30...	1100	6300	7.4	13.5	13.0	9.5
DEC						
29...	0815	6790	7.2	-6.5	6.0	10.7
JAN						
23...	1400	2740	7.6	9.0	7.0	11.6
FEB						
22...	1615	1730	7.2	4.0	6.5	11.2
MAR						
29...	0945	4530	7.7	14.0	10.0	10.8
APR						
27...	0900	5490	7.3	11.0	12.5	8.8
JUN						
27...	1415	2220	7.7	34.0	24.0	8.3
JUL						
26...	1045	2900	7.5	28.5	24.0	6.9
AUG						
28...	1630	1130	8.0	30.5	27.0	7.6
SEP						
27...	1120	2500	7.2	24.0	23.0	7.6

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
27...	73	62	.9	2300	28	--	80	.20	<.02	.10	4.0
NOV											
30...	61	28	.6	4300	23	--	14	.25	.02	.05	1.0
DEC											
29...	64	26	.9	150	23	--	28	.29	.03	.05	5.0
JAN											
23...	127	28	.5	230	60	--	13	.51	.02	.05	1.0
FEB											
22...	88	56	1.3	1500	35	--	4	.37	<.02	.12	1.0
MAR											
29...	78	29	.4	750	36	--	10	.36	<.02	.07	2.0
APR											
27...	69	39	.1	750	28	--	52	.30	<.02	.11	3.0
JUN											
27...	77	16	.6	70	36	--	25	.20	.04	.05	<1.0
JUL											
26...	102	24	.9	1500	44	45	56	.30	<.02	.06	1.0
AUG											
28...	140	4	.3	430	80	60	1	.30	<.02	<.02	2.0
SEP											
27...	93	15	.6	590	--	41	32	.18	<.02	.04	<1.0

02397000 COOSA RIVER NEAR ROME, GA.

LOCATION.--Lat 34 12'01", long 85 15'24", Floyd County, Hydrologic Unit 03150105, on left bank attached to shoreward side of lock wall of Mayos Bar lock near upstream end, 1.5 mi (2.4 km) upstream from Webb Creek, 6 mi (9.7 km) southwest of Rome, 7.5 mi (12.1 km) downstream from confluence of Oostanaula and Etowah Rivers, and at mile 278.6 (448.3 km).

DRAINAGE AREA.--4,040 mi^2 (10,500 km^2), approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1896 to December 1903 (published as "at Rome"), June 1928 to December 1931, March 1937 to December 1958, October 1962 to current year. Monthly discharge only for some periods, published in WSP 1304. Water years 1959-62 (annual maximum only). Gage-height records collected at same site 1922-49, are contained in reports of National Weather Service.

REVISED RECORDS.--WSP 1906: 1959(M).

GAGE.--Water-stage recorder. Datum of gage is 553.05 ft (168.57 m) National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). Jan. 1, 1897 to Dec. 31, 1903, nonrecording gage at site 7.5 mi (12.1 km) upstream at datum 8.65 ft (2.64 m) higher. June 21, 1928 to Dec. 31, 1931 and Mar. 10, 1937 to Dec. 31, 1958, water-stage recorder at site 200 ft (61 m) downstream at same datum. Water-stage recorder at Fifth Avenue in Rome used as auxiliary gage since 1963.

REMARKS.--Records good. Flow regulated by Allatoona Reservoir since December 1949 and by Carters Lake and Carters re-regulation Reservoir since November 1974. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400, 02382400, and 02393500.)

AVERAGE DISCHARGE.--47 years (1896-1903, 1928-31, 1937-58, 1962-78), 6,696 ft^3/s (190 m^3/s), 22.51 in/yr (571.8 mm/yr), unadjusted.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 65,000 ft^3/s (1,840 m^3/s) Jan. 22, 1947, gage height, 37.0 ft (11.28 m); minimum daily, 870 ft^3/s (24.6 m^3/s) Oct. 18-22, 1931.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1834, 40.3 ft (12.28 m) at site and datum at Rome, equivalent to about 43 ft (13.1 m) at present site, from gage-height relation, Apr. 1, 1886, discharge, 100,000 ft^3/s (2,830 m^3/s), from rating curve extended above 63,000 ft^3/s (1,780 m^3/s) on basis of peak flow at Gadsden, Ala.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 31,500 ft^3/s (892 m^3/s) Jan. 27, gage height, 26.05 ft (7.940 m); minimum daily, 1,170 ft^3/s (33.1 m^3/s) Sept. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3560	5640	11200	5920	22300	4620	5540	5040	4760	3860	2660	3800
2	3800	6090	10300	5510	17700	4540	3530	9050	4350	2000	2770	3820
3	5890	6040	9400	6510	16500	5230	3480	9510	4550	1960	2740	1680
4	7320	6760	5490	6960	13400	6310	4930	7630	3310	3030	2820	1590
5	6050	20800	5660	6370	6910	6230	5260	7330	3370	3020	3220	2400
6	4050	29300	8960	6440	6220	5620	4270	7480	4290	2890	2860	2370
7	3820	30000	9530	7330	9550	5290	3850	5770	4040	3010	4050	2320
8	4030	26800	10400	8320	10200	6080	3810	7680	4810	3050	4760	2320
9	8490	23100	10100	21700	9790	8190	3620	22900	6830	1910	6180	3060
10	11100	23100	6820	23600	9770	19900	3530	24300	7920	1840	6900	1480
11	8450	21600	4960	21500	6380	24500	4310	19900	5240	2630	5560	1410
12	7580	15900	4980	21100	4770	20300	4440	19500	3980	2730	5060	2280
13	6260	13400	6820	18600	5060	16600	4820	14700	6000	2600	3200	2310
14	5200	12600	6860	13900	6630	14700	4820	9030	6710	2600	2820	2440
15	4770	12100	6950	10500	6950	13500	4630	8650	6280	2810	5320	2400
16	3110	11900	7020	10100	6540	12400	3350	9070	4990	2460	4520	2380
17	3150	12700	4350	11300	6200	11500	3130	9610	4450	2970	4640	1480
18	4130	15200	4310	14000	5640	9010	4720	9380	2810	3850	4100	1440
19	3640	14400	5900	14800	3560	6270	9600	9890	2730	2840	4690	2660
20	3430	11500	6920	20100	3920	5870	9760	9300	4340	3400	2140	2420
21	3400	8450	6340	21400	5460	7480	8370	4740	4730	3020	1960	2900
22	3430	10400	6000	15100	5460	7140	6370	3600	4550	2520	4770	2430
23	2610	11800	5800	12100	5410	6750	4160	5850	3930	1650	4790	2150
24	2860	12800	5560	13300	5920	6470	4290	6780	3790	1590	4760	1320
25	6230	12800	7910	21500	5540	6250	5950	7060	2290	2650	4780	1320
26	13500	11500	10400	30200	3450	4950	6830	6610	2250	3850	4800	2090
27	14100	9660	12000	30800	3150	4970	7210	6918	4010	3440	1960	2090
28	12400	6930	10300	29500	4640	6970	7480	4190	3310	3100	1960	1270
29	9070	9750	9900	29500	---	7050	5830	3890	4550	3590	3740	1170
30	4640	11000	8920	28800	---	6520	4420	5250	4440	1840	1970	1930
31	4520	---	8220	27100	---	5820	---	5190	---	1800	3760	---
TOTAL	184590	424020	238280	513860	217020	277030	156310	285790	133610	84510	120260	64730
MEAN	5955	14130	7686	16580	7751	8936	5210	9219	4454	2726	3879	2158
MAX	14100	30000	12000	30800	22300	24500	9760	24300	7920	3860	6900	3820
MIN	2610	5640	4310	5510	3150	4540	3130	3600	2250	1590	1960	1170

CAL YR 1977 TOTAL 2983800 MEAN 8175 MAX 54600 MIN 1870 MEAN† 8181 CFSM† 2.02 IN† 27.42
WTR YR 1978 TOTAL 2700010 MEAN 7397 MAX 30800 MIN 1170 MEAN† 7438 CFSM† 1.84 IN† 24.98

† Adjusted for change in contents in Carters Lake, Carters re-regulation dam, and Allatoona Reservoir.

02397000 COOSA RIVER NEAR ROME, GA.—Continued

GAGE HEIGHT, IN FEET, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.57	13.65	15.82	13.77	20.44	13.25	13.61	13.42	13.29	12.90	12.25	12.82
2	12.92	13.84	15.47	13.60	18.35	13.22	12.81	15.00	13.12	12.00	12.31	12.82
3	13.76	13.82	15.13	14.00	17.83	13.49	12.79	15.18	13.21	11.96	12.29	11.74
4	14.33	14.10	13.60	14.18	16.64	13.93	13.37	14.45	12.70	12.51	12.32	11.68
5	13.82	19.89	13.67	13.95	14.16	13.89	13.51	14.33	12.74	12.51	12.52	12.16
6	13.01	24.46	14.97	13.97	13.89	13.65	13.11	14.39	13.10	12.44	12.37	12.15
7	12.91	24.92	15.19	14.33	15.19	13.52	12.92	13.71	13.01	12.49	12.90	12.12
8	13.00	22.81	15.52	14.71	15.45	13.83	12.91	14.46	13.32	12.51	13.18	12.12
9	14.78	20.78	15.40	20.19	15.28	14.67	12.85	20.77	14.13	11.91	13.75	12.47
10	15.79	20.76	14.13	21.04	15.28	19.40	12.81	21.42	14.57	11.86	14.05	11.59
11	14.78	20.07	13.39	20.03	13.95	21.46	13.12	19.34	13.50	12.30	13.52	11.53
12	14.43	17.60	13.39	19.88	13.31	19.50	13.18	19.13	12.98	12.35	13.31	12.11
13	13.90	16.61	14.13	18.76	13.43	17.86	13.33	17.17	13.80	12.29	12.53	12.14
14	13.48	16.32	14.14	16.83	14.05	17.12	13.33	14.99	14.08	12.27	12.36	12.20
15	13.31	16.13	14.18	15.55	14.18	16.64	13.25	14.84	13.91	12.38	13.43	12.19
16	12.61	16.08	14.21	15.42	14.01	16.26	12.72	15.01	13.39	12.23	13.09	12.18
17	12.62	16.36	13.14	15.86	13.88	15.94	12.61	15.21	13.17	12.48	13.14	11.62
18	13.04	17.31	13.12	16.83	13.66	14.99	13.28	15.13	12.46	12.86	12.92	11.58
19	12.84	17.00	13.76	17.16	12.82	13.91	15.22	15.32	12.41	12.39	13.16	12.30
20	12.75	15.93	14.17	19.40	12.97	13.75	15.28	15.08	13.12	12.63	12.00	12.22
21	12.74	14.78	13.94	19.99	13.58	14.39	14.75	13.30	13.29	12.46	11.89	12.47
22	12.75	15.50	13.80	17.28	13.58	14.25	13.95	12.84	13.21	12.31	13.20	12.23
23	12.36	16.02	13.72	16.13	13.56	14.10	13.06	13.74	12.94	11.70	13.22	12.04
24	12.46	16.42	13.62	16.60	13.77	13.99	13.11	14.11	12.88	11.65	13.20	11.47
25	13.89	16.41	14.55	20.12	13.62	13.90	13.78	14.22	12.20	12.26	13.22	11.47
26	16.67	15.90	15.51	25.12	12.77	13.38	14.13	14.04	12.18	12.84	13.23	12.01
27	16.88	15.23	16.11	25.52	12.62	13.39	14.28	14.17	12.97	12.66	11.90	12.01
28	16.26	14.17	15.46	24.59	13.25	14.19	14.39	13.08	11.74	12.49	11.90	11.42
29	15.01	15.27	15.33	24.54	---	14.22	13.73	12.96	13.21	12.68	12.79	11.32
30	13.26	15.73	14.95	24.07	---	14.01	13.17	13.50	13.16	11.81	12.98	11.89
31	13.21	---	14.68	22.94	---	13.73	---	13.47	---	11.76	12.78	---
MEAN	13.75	17.13	14.46	18.27	14.48	14.96	13.48	15.09	13.13	12.32	12.83	12.00
MAX	16.88	24.92	16.11	25.52	20.44	21.46	15.28	21.42	14.57	12.90	14.05	12.82
MIN	12.36	13.65	13.12	13.60	12.62	13.22	12.61	12.84	11.74	11.65	11.89	11.32

WTR YR 1978 MEAN 14.33 MAX 25.52 MIN 11.32

02397000 COOSA RIVER NEAR ROME, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT						
27...	1105	14300	7.3	21.0	16.5	6.6
DEC						
01...	1330	11400	7.2	13.5	12.5	7.2
28...	1440	9710	7.2	2.5	6.5	--
JAN						
23...	1330	11400	7.3	7.0	5.5	12.0
FEB						
22...	1530	4780	7.3	4.0	5.5	10.8
MAR						
29...	1105	7620	7.6	21.0	12.0	10.0
APR						
24...	1330	4250	7.5	25.0	16.0	8.8
JUN						
27...	1520	4220	7.7	35.0	26.0	6.4
JUL						
26...	1430	4730	7.4	33.0	25.5	5.9
AUG						
28...	1415	2000	7.5	33.0	27.0	5.8
SEP						
26...	1130	3120	7.5	27.0	23.5	6.4

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	HARDNESS (MG/L AS CACO3)	ALKALINITY (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
27...	90	100	2.5	8400	34	--	.19	<.02	.26	11
DEC										
01...	79	9	1.1	2300	34	--	.26	.03	.08	4.0
28...	82	31	1.2	430	34	--	.32	.02	.08	3.0
JAN										
23...	91	26	.7	1500	40	--	.37	.03	.09	2.0
FEB										
22...	94	50	1.2	90	49	--	.37	.06	.12	2.0
MAR										
29...	100	20	.7	1500	44	--	.35	.04	.10	2.0
APR										
24...	126	15	1.0	150	56	--	.40	.08	.14	3.0
JUN										
27...	155	15	1.1	4300	66	--	.38	.07	.12	<1.0
JUL										
26...	120	44	1.3	9300	50	47	.39	.04	.18	<1.0
AUG										
28...	135	12	.7	4300	64	48	.33	.11	.19	2.0
SEP										
26...	144	10	.7	43000	62	59	.37	.06	.22	3.0

02397500 CEDAR CREEK NEAR CEDARTOWN, GA.

LOCATION.--Lat 34°03'38", long 85°18'41", Polk County, Hydrologic Unit 03150105, on left bank 700 ft (213 m) downstream from bridge on State Highway 161, 4.5 mi (7.2 km) upstream from Lake Creek, and 4.5 mi (7.2 km) northwest of Cedartown.

DRAINAGE AREA.--109 mi^2 (282 km^2).

PERIOD OF RECORD.--February 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey. Water-discharge records for the water years 1943-73 are published in reports of the Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT						
27...	1155	96	7.7	21.0	17.0	6.3
DEC						
01...	1225	158	7.4	14.5	13.5	7.2
29...	1100	81	7.8	-1.5	5.5	10.4
JAN						
23...	1245	242	7.6	6.0	8.0	11.4
FEB						
22...	1345	110	8.1	3.0	9.0	12.0
MAR						
29...	1230	136	8.3	21.5	15.0	12.6
APR						
24...	1330	43	7.9	25.0	17.0	9.2
JUN						
28...	0950	75	7.6	34.0	23.5	5.2
AUG						
28...	1300	40	7.7	32.0	23.0	5.0
SEP						
26...	1030	37	7.4	24.0	20.5	2.7

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	HARDNESS (MG/L AS CACO3)	ALKALINITY (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
27...	280	13	2.7	7500	97	--	.36	.08	.20	5.0
DEC										
01...	225	3	1.5	2300	101	--	.46	.05	.09	3.0
29...	267	8	2.1	2100	126	--	.54	.10	.25	4.0
JAN										
23...	169	11	.9	930	78	--	.50	.02	.06	1.0
FEB										
22...	261	7	2.0	360	111	--	.55	<.02	.33	1.0
MAR										
29...	248	21	1.2	2300	116	--	.47	<.02	.18	1.0
APR										
24...	269	5	1.0	430	125	--	.50	.22	.18	3.0
JUN										
28...	306	4	.8	230	--	--	.60	.19	.23	2.5
AUG										
28...	380	2	.9	430	183	137	.26	<.02	.20	2.0
SEP										
26...	310	1	3.0	<30	126	129	.44	.04	.30	3.0

02397530 COOSA RIVER NEAR COOSA, GA.

LOCATION.--Lat 34°11'54", long 85°26'46", Floyd County, Ga.-Cherokee County, Ala., Hydrologic Unit 03150105, 6.5 mi (10.5 km) southwest of Coosa, and at mile 254.8 (410.0 km).

DRAINAGE AREA.--4,360 mi^2 (11,300 km^2), approximately.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: August 1976 to current year.
pH: August 1976 to current year.
WATER TEMPERATURE: August 1976 to current year.
DISSOLVED OXYGEN: August 1976 to current year.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Flow regulated by Allatoona Reservoir and by Carters Lake and re-regulation dam. (See "Lakes and Reservoirs in Mobile River Basin," stations 02381400, 02382400, and 02393500). Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 253 micromhos Sept. 15, 1977; minimum, 54 micromhos Jan. 26, 1978.
pH: Maximum, 9.7 units Dec. 5, 1977; minimum, 6.3 units Nov. 6-12, 1977.
WATER TEMPERATURE: Maximum, 34.0°C July 15, 1977; minimum, 2.5°C Jan. 18, 19, 1977.
DISSOLVED OXYGEN: Maximum, 14.4 mg/L Jan. 20, 1977; minimum, 1.4 mg/L July 8, 1977.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum, 210 micromhos Aug. 5; minimum, 54 micromhos Jan. 26.
pH: Maximum, 9.7 units Dec. 5; minimum recorded, 6.3 units Nov. 6-12.
WATER TEMPERATURE: Maximum, 33.0°C Sept. 8, 20; minimum 3.5°C Jan. 29-31.
DISSOLVED OXYGEN: Maximum, 13.0 mg/L Jan. 30; minimum recorded, 2.6 mg/L Sept. 29.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT					
26...	1340	7.3	21.0	18.0	6.7
NOV					
29...	1530	7.4	--	--	--
DEC					
28...	1315	7.1	.0	8.0	--
FEB					
22...	1230	7.7	1.5	8.0	10.1
MAR					
28...	1505	7.5	22.0	14.5	8.9
APR					
24...	1500	7.0	26.0	16.5	8.2
MAY					
31...	1100	7.2	29.0	23.0	5.3
JUN					
26...	0930	7.9	27.5	27.0	5.4
JUL					
24...	1000	7.5	30.0	30.0	4.6
SEP					
07...	0815	7.1	21.0	28.5	5.3

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, CHEMICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	HARDNESS (MG/L AS CACO3)	ALKALINITY (MG/L AS CACO3)
OCT 26...	118	81	22	2.0	9300	48	--
NOV 29...	112	20	14	1.2	4300	48	--
DEC 28...	91	56	15	1.4	930	37	--
FEB 22...	168	64	26	1.3	230	80	--
MAR 28...	124	17	5	.8	930	54	--
APR 24...	114	25	7	1.8	430	45	--
MAY 31...	133	17	11	1.3	40	59	--
JUN 26...	143	15	14	2.6	<35	54	--
JUL 24...	132	10	19	3.0	40	50	52
SEP 07...	149	12	19	1.4	70	--	49

DATE	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, TOTAL (MG/L)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 26...	160	200	.27	<.02	.48	.29	8.0
NOV 29...	35	114	.34	<.02	.29	.09	3.0
DEC 28...	32	128	.32	.06	.38	.13	6.0
FEB 22...	3	--	.51	.06	.41	.18	2.0
MAR 28...	13	106	.37	.04	.24	.10	2.0
APR 24...	16	116	.26	.03	.53	.12	7.0
MAY 31...	23	80	.41	.15	.44	.14	6.0
JUN 26...	7	148	.20	.03	.70	.12	1.5
JUL 24...	12	156	.32	.04	.44	.19	4.0
SEP 07...	7	116	.26	.07	.34	.16	10

02397530 COOSA RIVER NEAR COOSA, GA.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	143	132	136	126	107	93	113	97	79	78	166	149
2	148	133	142	112	103	92	120	116	83	81	168	132
3	148	136	120	106	109	91	132	121	85	84	142	130
4	144	128	128	110	112	96	138	109	88	85	141	134
5	134	120	121	89	129	113	121	108	98	90	139	116
6	123	111	92	79	139	112	118	99	122	95	122	118
7	122	112	83	80	110	90	119	107	118	73	133	121
8	130	119	87	83	111	92	121	104	79	66	141	129
9	149	123	92	86	98	88	116	83	80	69	133	120
10	122	99	93	84	99	86	88	81	84	68	116	85
11	106	103	88	84	108	99	89	79	93	73	84	73
12	115	103	97	89	127	109	86	77	98	91	77	75
13	115	103	92	87	135	119	90	81	113	97	83	76
14	114	101	96	85	142	101	97	87	128	117	100	84
15	123	104	86	85	115	100	102	90	137	102	99	87
16	123	115	87	85	119	102	100	89	128	104	96	89
17	129	118	88	85	121	110	96	87	118	105	97	88
18	149	130	94	87	131	115	99	85	124	112	100	91
19	155	147	91	87	146	131	97	87	127	114	106	99
20	156	145	98	88	146	140	101	77	136	120	113	103
21	144	131	99	88	139	122	105	72	160	138	131	114
22	142	134	107	90	128	113	115	73	165	115	130	101
23	145	139	99	84	129	114	100	81	127	110	112	94
24	147	140	99	89	127	111	90	67	134	110	118	105
25	166	145	101	90	124	110	79	61	138	118	122	110
26	145	90	99	90	110	94	65	54	125	109	125	113
27	102	91	101	89	114	92	74	60	126	113	131	116
28	104	96	108	90	103	91	82	67	147	129	137	116
29	99	98	123	100	103	94	75	68	---	---	142	107
30	---	---	109	95	103	89	72	70	---	---	111	92
31	128	113	---	---	109	91	76	74	---	---	111	101
MONTH	166	90	142	79	146	86	138	54	165	66	168	73

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	114	103	129	118	171	117	147	119	176	162	141	110
2	125	107	135	123	135	118	140	125	174	168	141	108
3	131	115	129	102	129	116	138	134	175	172	138	110
4	143	125	117	101	136	115	135	125	194	175	137	125
5	156	144	124	112	145	128	146	132	210	181	133	121
6	160	126	127	109	162	145	166	130	194	178	144	132
7	126	118	120	100	175	157	184	165	191	167	160	143
8	124	115	116	110	173	148	180	149	182	162	196	160
9	136	126	126	66	148	133	152	140	164	134	193	168
10	152	132	77	68	150	128	146	143	140	131	179	167
11	162	145	79	74	142	122	145	142	140	108	172	153
12	143	132	86	72	139	126	166	146	123	113	166	156
13	163	144	85	73	138	119	167	154	125	117	167	158
14	147	137	96	82	154	132	181	158	138	123	176	167
15	144	131	104	94	136	113	186	165	159	137	190	177
16	143	135	113	95	133	121	185	162	162	144	200	156
17	147	140	103	82	144	124	181	159	164	114	175	154
18	153	138	104	84	139	123	172	155	127	108	174	151
19	145	100	106	79	138	130	180	167	139	110	176	156
20	111	93	99	80	159	133	172	161	128	123	182	167
21	111	104	93	79	175	160	177	169	---	---	194	174
22	115	99	114	82	194	151	169	144	---	---	194	182
23	116	109	127	105	150	132	152	142	---	---	185	143
24	131	111	163	128	136	129	163	144	130	104	179	155
25	141	126	138	98	137	126	191	163	125	95	181	157
26	144	121	120	100	140	125	193	185	127	93	188	154
27	119	105	123	99	162	139	189	174	126	111	169	158
28	114	102	118	100	170	159	198	188	120	113	178	166
29	111	100	124	104	195	155	193	159	129	116	180	170
30	117	107	140	126	153	125	164	143	165	125	---	---
31	---	---	154	136	---	---	164	150	197	139	---	---
MONTH	163	93	163	66	195	113	198	119	210	93	200	108

02397530 COOSA RIVER NEAR COOSA, GA.—Continued

PH (UNITS). WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.0	6.8	6.9	6.5	7.2	6.8	7.2	6.9	6.8	6.7	7.1	6.9
2	6.9	6.8	6.9	6.8	6.8	6.6	6.9	6.7	7.0	6.7	7.0	6.9
3	6.9	6.8	6.9	6.8	7.1	6.6	7.4	6.7	6.9	6.8	6.9	6.8
4	7.0	6.8	7.0	6.8	8.3	7.0	7.5	7.1	7.2	6.8	6.9	6.8
5	6.9	6.6	6.9	6.7	9.7	7.6	7.5	7.2	7.1	6.7	7.2	6.8
6	6.8	6.7	6.6	6.3	8.1	6.9	8.3	7.4	6.9	6.7	7.3	7.0
7	6.9	6.8	6.3	6.3	6.8	6.6	8.4	8.0	7.1	6.8	7.3	7.1
8	6.9	6.8	6.4	6.3	6.9	6.6	8.4	7.6	6.9	6.7	7.3	7.2
9	7.0	6.8	6.5	6.3	7.1	6.7	7.5	6.7	7.2	6.8	7.2	7.1
10	6.8	6.6	6.5	6.3	6.7	6.6	6.7	6.6	7.5	6.8	7.1	6.9
11	6.8	6.6	6.4	6.3	6.9	6.7	6.8	6.6	7.6	6.9	6.9	6.7
12	6.8	6.7	6.4	6.3	7.2	6.6	6.8	6.8	7.5	7.0	7.0	6.8
13	6.8	6.7	6.5	6.4	8.1	7.0	6.9	6.8	7.5	7.1	7.0	6.8
14	6.9	6.7	7.0	6.4	---	---	6.9	6.8	7.3	7.1	7.2	6.9
15	6.9	6.7	6.9	6.6	---	---	7.0	6.8	7.3	7.1	7.1	6.8
16	6.9	6.8	6.9	6.7	7.9	7.1	7.2	6.9	7.3	7.0	7.0	6.9
17	6.9	6.8	7.6	6.7	7.8	7.7	7.2	7.1	7.2	7.0	7.0	6.8
18	7.0	6.8	7.0	6.6	7.8	7.0	7.2	7.0	7.1	7.0	7.1	6.9
19	7.2	7.0	6.7	6.5	7.5	6.8	7.2	7.1	7.1	6.9	7.2	6.9
20	7.1	6.9	6.9	6.6	7.6	7.4	7.1	6.9	7.1	6.8	7.2	7.0
21	7.1	6.8	6.7	6.6	7.3	6.9	6.9	6.9	7.0	6.9	7.3	7.1
22	7.1	6.8	6.8	6.7	7.1	6.8	7.1	6.9	7.1	6.9	7.3	7.2
23	7.0	6.8	7.1	6.6	7.3	6.8	7.7	6.9	7.0	6.9	7.3	7.1
24	7.1	6.9	7.3	6.6	8.1	7.3	7.3	7.1	7.4	6.9	7.2	7.0
25	7.1	6.9	6.9	6.6	8.2	7.1	7.3	7.1	7.6	6.9	7.2	7.1
26	7.0	6.5	6.6	6.4	7.0	6.5	7.1	6.7	7.4	7.0	7.1	7.0
27	6.7	6.4	6.7	6.4	6.9	6.6	6.7	6.6	7.1	6.9	7.0	7.0
28	7.1	6.5	6.7	6.6	6.8	6.6	6.8	6.6	7.0	6.9	7.2	6.9
29	6.8	6.6	7.1	6.7	6.8	6.6	6.8	6.6	---	---	7.3	7.2
30	---	---	7.1	6.9	6.9	6.7	6.7	6.6	---	---	7.2	7.1
31	6.6	6.4	---	---	7.1	6.7	6.8	6.7	---	---	7.2	7.0
MONTH	7.2	6.4	7.6	6.3	9.7	6.5	8.4	6.6	7.6	6.7	7.3	6.7

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	7.2	7.0	6.8	6.8	6.8	6.7	6.7	6.6	6.9	6.7	6.7	6.6
2	7.2	7.0	6.9	6.8	6.8	6.6	6.7	6.6	6.9	6.6	6.6	6.5
3	7.3	7.0	6.9	6.7	6.6	6.6	6.8	6.6	6.7	6.6	6.6	6.5
4	7.1	7.0	6.7	6.7	6.8	6.5	6.8	6.6	7.0	6.7	6.8	6.5
5	7.1	7.0	6.9	6.7	6.9	6.6	6.6	6.5	6.8	6.7	6.9	6.6
6	7.1	7.0	6.9	6.8	6.8	6.5	6.7	6.5	6.8	6.7	6.8	6.6
7	7.0	6.9	6.9	6.8	6.6	6.6	6.9	6.6	7.0	6.6	7.0	6.5
8	7.0	6.9	6.8	6.7	6.7	6.6	6.8	6.7	6.7	6.7	6.9	6.7
9	7.0	6.8	6.8	6.4	6.7	6.6	6.7	6.6	6.7	6.6	7.0	6.9
10	7.0	6.8	6.5	6.4	6.7	6.6	7.1	6.7	6.7	6.5	6.9	6.8
11	7.0	6.8	6.5	6.4	6.7	6.6	7.2	6.9	6.7	6.5	6.9	6.8
12	6.9	6.7	6.6	6.4	6.8	6.5	6.9	6.7	6.7	6.6	7.0	6.8
13	6.9	6.8	6.6	6.5	6.8	6.6	6.7	6.7	6.7	6.6	6.8	6.7
14	6.9	6.7	6.6	6.5	6.9	6.7	6.9	6.7	6.8	6.6	6.7	6.7
15	6.9	6.8	6.6	6.6	6.8	6.7	6.8	6.8	6.8	6.6	6.9	6.7
16	7.0	6.7	6.7	6.6	6.8	6.6	6.8	6.6	6.8	6.6	6.9	6.8
17	7.2	6.7	6.7	6.6	6.9	6.7	6.9	6.7	6.8	6.6	6.9	6.7
18	7.3	6.9	6.7	6.6	6.9	6.7	6.8	6.6	6.8	6.6	6.9	6.7
19	6.9	6.6	6.7	6.5	6.9	6.7	6.7	6.7	6.7	6.6	6.9	6.7
20	6.7	6.6	6.7	6.5	7.0	6.7	6.7	6.6	6.6	6.6	6.8	6.7
21	6.7	6.7	6.8	6.6	6.8	6.7	6.7	6.6	---	---	7.0	6.7
22	6.8	6.6	7.1	6.6	6.9	6.8	6.7	6.6	---	---	7.0	6.8
23	6.7	6.7	6.8	6.6	6.9	6.7	6.8	6.6	---	---	6.8	6.7
24	6.8	6.7	7.0	6.7	6.8	6.7	7.0	6.7	6.7	6.5	6.7	6.7
25	6.8	6.7	6.8	6.6	6.8	6.6	7.0	6.8	6.7	6.5	6.8	6.7
26	6.9	6.8	6.8	6.7	8.0	6.6	6.8	6.7	6.6	6.5	6.7	6.6
27	6.8	6.8	6.8	6.6	7.3	6.7	6.8	6.6	6.6	6.5	6.7	6.6
28	6.8	6.7	7.0	6.6	7.0	6.7	6.8	6.7	6.8	6.5	6.7	6.6
29	6.8	6.7	6.8	6.6	7.0	6.8	6.8	6.7	6.8	6.5	6.7	6.6
30	6.8	6.7	6.6	6.5	6.8	6.7	7.0	6.6	6.7	6.5	---	---
31	---	---	6.8	6.6	---	---	7.0	6.6	6.8	6.7	---	---
MONTH	7.3	6.6	7.1	6.4	8.0	6.5	7.2	6.5	7.0	6.5	7.0	6.5

02397530 COOSA RIVER NEAR COOSA, GA.—Continued

TEMPERATURE (DEG. C) OF WATER, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	24.0	23.0	19.5	17.0	14.5	13.5	9.0	8.0	4.5	4.0	10.5	9.0
2	24.0	23.0	18.0	17.5	14.0	13.0	9.5	7.0	5.0	4.5	9.0	8.0
3	23.5	22.5	18.5	17.5	14.0	12.5	10.0	7.0	5.5	4.5	8.5	8.0
4	22.5	21.0	18.5	17.5	14.0	13.0	10.0	6.5	6.0	4.5	10.0	6.5
5	21.5	20.5	19.5	18.0	15.5	13.5	8.0	6.5	7.0	5.0	9.5	6.0
6	22.0	20.5	18.5	18.0	14.0	12.5	8.5	8.0	7.0	5.0	9.5	6.5
7	22.0	20.5	18.5	18.0	12.5	10.5	10.0	8.5	6.5	4.5	8.0	7.0
8	22.0	21.0	18.5	17.5	11.5	10.5	11.0	9.0	5.0	4.0	9.0	8.0
9	21.5	19.5	18.0	17.5	11.5	9.5	10.0	8.0	6.0	4.0	9.0	8.5
10	20.0	18.5	18.0	14.0	11.0	9.0	8.5	6.0	7.0	4.5	10.5	8.0
11	19.5	18.5	17.0	15.0	10.5	8.5	6.5	4.5	7.5	4.5	11.0	8.0
12	19.0	17.5	16.0	14.0	10.0	8.0	4.5	4.0	9.0	5.5	12.0	9.5
13	19.0	17.0	15.0	13.5	9.0	8.0	5.0	4.0	9.0	6.5	13.0	9.5
14	19.0	17.5	15.0	13.5	12.0	9.0	5.5	4.5	8.0	7.0	15.0	11.5
15	19.0	17.5	15.0	13.5	13.0	10.5	7.0	4.5	10.5	8.0	15.5	12.5
16	18.0	16.5	15.0	14.0	12.5	11.0	6.0	4.5	10.0	7.5	13.5	12.5
17	18.5	16.0	16.5	14.5	12.0	11.5	6.0	5.0	10.0	7.5	13.0	11.5
18	18.0	16.5	16.5	14.5	13.5	11.0	7.0	5.5	9.5	8.0	12.5	10.5
19	17.0	15.5	15.5	14.0	13.5	11.0	6.0	6.0	10.0	8.0	12.5	10.5
20	17.5	15.5	15.0	14.0	12.5	11.0	6.0	5.5	10.0	7.5	13.0	10.5
21	19.0	16.0	14.5	14.5	11.5	10.0	7.0	5.5	8.5	7.5	13.0	11.5
22	20.0	17.0	15.0	14.5	11.0	9.5	7.0	5.5	9.5	6.5	14.5	12.5
23	19.5	17.0	16.0	15.0	10.0	9.0	8.5	5.0	7.0	6.0	15.0	12.5
24	18.5	17.0	17.0	15.5	10.5	9.5	7.0	6.0	9.0	5.5	16.0	13.5
25	18.0	17.5	16.0	14.5	11.5	9.0	7.0	6.0	10.0	6.0	16.0	14.0
26	18.0	17.0	15.0	13.0	11.0	8.5	6.5	6.0	10.0	6.5	14.5	14.0
27	18.5	17.0	14.5	12.5	10.0	7.0	6.0	5.0	10.0	7.0	14.5	13.5
28	19.0	17.0	13.0	12.5	8.5	6.5	5.5	4.0	9.5	8.0	15.5	13.0
29	17.5	17.0	13.5	12.5	7.5	6.5	5.0	3.5	---	---	15.0	12.5
30	---	---	14.0	13.5	7.5	7.0	4.0	3.5	---	---	15.0	13.0
31	18.0	17.5	---	---	8.5	7.0	4.0	3.5	---	---	15.5	13.0
MONTH	24.0	15.5	19.5	12.5	15.5	6.5	11.0	3.5	10.5	4.0	16.0	6.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	16.5	13.0	17.0	16.0	25.0	23.5	30.0	28.0	30.0	29.0	31.0	28.0
2	16.5	14.0	17.0	16.0	24.0	23.0	31.0	28.5	31.0	29.5	29.5	27.5
3	19.0	15.0	16.0	15.5	24.0	23.5	31.0	28.5	31.0	30.0	31.0	27.5
4	19.0	16.0	16.5	15.5	25.5	23.0	32.0	29.5	32.0	30.0	31.5	27.5
5	21.0	18.5	17.0	15.5	26.0	23.5	32.0	30.0	31.0	29.5	31.5	27.5
6	20.5	19.0	17.0	16.0	26.5	23.5	31.0	29.5	30.5	29.5	31.5	28.0
7	21.0	19.0	17.0	16.5	26.0	24.5	32.5	30.0	31.5	29.0	32.0	28.5
8	22.0	19.0	17.5	17.0	25.0	24.5	32.0	30.0	29.5	28.0	33.0	28.5
9	22.5	19.5	19.0	17.0	25.0	23.5	31.5	29.5	27.5	26.5	31.0	28.5
10	23.0	19.5	19.5	17.5	24.5	23.0	31.5	29.5	26.5	25.5	30.5	28.0
11	21.0	19.5	19.0	18.0	26.5	22.5	31.0	29.5	25.5	25.0	30.0	27.5
12	20.5	19.0	19.0	17.5	25.0	23.5	31.5	29.5	26.5	25.0	28.5	27.0
13	21.5	19.0	19.0	17.5	24.5	23.5	30.5	29.5	27.0	25.0	30.0	27.5
14	20.5	19.0	19.0	17.5	25.5	23.5	31.5	30.0	26.0	25.5	29.5	28.0
15	20.0	18.0	18.0	17.5	25.0	23.0	31.0	29.5	28.0	26.0	28.5	28.0
16	21.0	18.5	18.0	16.5	25.0	23.5	30.0	28.5	28.5	26.5	30.5	28.0
17	21.0	18.5	18.0	16.0	26.0	23.5	32.5	28.5	29.0	27.5	30.0	28.0
18	19.5	18.0	18.0	17.0	25.5	24.0	31.5	28.0	29.5	27.5	30.5	28.5
19	19.0	16.0	19.0	17.5	26.5	25.0	32.0	28.5	30.5	28.0	31.5	28.5
20	17.0	15.5	19.5	18.0	27.0	25.0	31.0	29.0	31.0	29.0	33.0	29.0
21	17.0	15.5	21.5	19.0	27.0	25.5	31.5	28.5	---	---	31.5	28.5
22	16.5	15.0	23.0	19.0	27.5	26.0	31.5	29.0	---	---	30.5	28.0
23	16.5	15.0	22.0	20.5	28.0	25.5	31.0	29.0	---	---	30.0	28.0
24	17.5	15.5	23.5	21.5	27.5	25.5	31.0	29.5	29.0	28.0	28.0	27.0
25	17.0	16.0	22.5	21.0	28.0	26.0	31.0	30.0	29.0	27.5	30.0	27.0
26	16.5	15.5	23.0	21.0	29.5	26.0	31.5	29.5	28.5	27.5	28.5	27.0
27	16.5	15.0	23.5	21.5	28.5	28.0	31.0	29.5	30.0	27.5	29.5	27.5
28	16.0	14.5	24.5	21.5	31.5	28.0	30.0	29.0	30.5	28.0	30.5	28.0
29	16.5	15.0	24.0	22.5	30.0	28.5	29.5	28.5	30.0	29.5	29.0	27.0
30	17.0	16.0	24.0	23.5	29.0	27.5	31.0	28.5	31.5	29.0	---	---
31	---	---	24.5	23.0	---	---	31.0	29.0	30.5	28.5	---	---
MONTH	23.0	13.0	24.5	15.5	31.5	22.5	32.5	28.0	32.0	25.0	33.0	27.0

02397530 COOSA RIVER NEAR COOSA, GA.—Continued

DISSOLVED OXYGEN (DO), MG/L, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.0	5.7	7.0	6.1	9.4	9.2	10.9	10.6	12.7	12.5	10.0	9.8
2	5.9	5.2	7.6	7.0	9.4	9.2	10.8	10.4	12.6	12.5	10.1	9.7
3	6.3	5.7	7.7	7.4	9.6	9.3	11.0	10.5	12.6	12.5	10.1	9.9
4	7.0	6.4	7.5	7.2	9.5	9.0	11.5	11.0	12.5	12.3	10.5	9.9
5	6.6	5.8	7.5	6.1	8.9	8.4	11.7	11.5	12.4	11.7	11.0	10.5
6	6.4	6.0	6.1	5.5	9.0	8.4	11.4	11.1	11.7	11.5	11.1	10.6
7	6.4	6.1	5.7	5.6	9.9	9.1	11.0	10.4	12.3	11.5	11.1	10.8
8	6.2	5.8	5.8	5.5	10.3	9.9	10.4	9.4	12.7	12.4	10.9	10.3
9	6.8	6.1	6.0	5.6	10.6	10.0	9.7	8.6	12.7	12.6	10.4	10.3
10	6.8	6.3	7.1	5.8	10.5	10.2	10.8	8.5	12.8	12.4	10.5	10.2
11	7.1	6.6	7.2	6.9	10.7	10.4	11.9	10.8	12.6	12.1	10.7	10.1
12	7.6	7.1	7.5	6.7	10.8	10.4	12.3	11.9	12.1	11.4	10.3	9.8
13	7.7	7.4	8.5	7.5	11.1	10.9	12.4	11.9	11.7	11.1	10.2	9.5
14	7.6	7.4	8.7	8.4	11.0	9.6	11.9	11.6	11.1	10.6	9.5	8.7
15	7.5	7.0	8.8	8.6	9.8	9.0	12.1	11.6	11.1	10.5	9.0	8.5
16	7.3	7.1	8.9	8.7	9.3	8.7	12.1	11.9	11.5	11.0	9.0	8.6
17	7.3	7.1	8.8	8.2	8.8	8.3	12.1	12.0	11.4	10.9	9.0	8.6
18	7.1	6.5	8.6	8.2	8.4	7.8	12.0	11.8	11.1	10.8	9.4	8.7
19	7.8	7.1	8.6	8.4	8.3	7.8	12.0	11.8	11.1	10.6	9.7	9.4
20	7.8	7.6	8.7	8.4	8.9	8.3	11.8	11.7	11.0	10.5	9.7	9.5
21	7.6	7.3	8.6	8.2	9.5	9.0	11.8	11.6	10.5	10.2	9.6	9.4
22	7.4	7.1	8.5	8.4	10.1	9.5	11.9	11.6	11.4	10.5	9.7	9.4
23	7.3	7.0	8.6	8.4	10.5	10.0	11.9	11.5	11.6	11.2	9.7	9.0
24	7.3	6.8	8.5	8.1	10.7	10.3	11.9	11.5	11.8	11.1	9.2	8.7
25	7.4	6.3	8.4	8.0	10.7	10.4	11.9	11.6	11.6	11.0	8.8	8.4
26	7.4	6.3	8.7	8.2	10.7	10.0	11.8	11.4	11.4	10.9	8.6	8.3
27	6.4	5.9	9.1	8.5	11.4	10.5	12.0	11.6	11.2	10.8	8.4	7.9
28	6.4	6.0	9.2	8.8	11.9	11.4	12.6	11.9	10.8	9.9	8.5	7.8
29	6.6	6.4	9.4	9.1	12.0	11.8	12.9	12.6	---	---	9.4	8.5
30	---	---	9.6	9.2	12.0	11.6	13.0	12.9	---	---	9.7	9.4
31	6.2	6.1	---	---	11.7	10.9	12.9	12.7	---	---	9.8	9.2
MONTH	7.8	5.2	9.6	5.5	12.0	7.8	13.0	8.5	12.8	9.9	11.1	7.8

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	9.4	8.8	7.8	7.4	6.7	5.4	5.8	5.0	6.7	4.3	6.9	5.3
2	9.1	8.7	7.5	7.2	7.1	5.8	5.9	4.8	6.3	4.2	6.7	5.6
3	9.1	8.5	7.5	7.0	5.9	5.5	6.2	4.7	---	---	6.6	5.6
4	8.7	7.7	7.5	6.9	6.7	4.8	6.7	4.8	---	---	7.5	5.7
5	7.9	7.4	7.2	6.7	7.1	4.9	5.5	3.9	---	---	8.2	6.8
6	7.7	7.3	7.8	7.0	6.7	3.9	4.6	4.0	---	---	7.8	5.9
7	8.3	7.7	8.0	7.4	4.7	3.1	5.3	3.9	---	---	7.2	4.7
8	8.0	7.8	7.9	6.9	4.7	3.8	5.6	3.7	---	---	7.0	4.1
9	7.9	7.1	7.2	6.6	5.0	4.2	5.2	4.1	5.3	4.3	7.5	5.8
10	8.0	6.5	7.1	6.8	5.9	5.1	7.3	5.5	6.0	4.7	6.6	5.6
11	7.9	6.0	7.1	6.8	6.5	5.1	8.4	6.2	6.5	5.5	8.2	6.3
12	7.1	6.6	7.8	7.1	5.7	4.5	---	---	6.7	5.8	7.6	5.7
13	7.0	6.4	7.8	7.4	5.6	4.8	---	---	7.2	5.8	7.1	5.6
14	7.5	6.5	7.6	7.1	5.9	4.9	---	---	7.8	5.1	5.8	4.7
15	7.7	6.9	7.7	7.2	6.2	5.5	---	---	7.4	3.9	6.0	4.6
16	8.3	6.9	8.0	7.2	6.4	5.2	---	---	6.5	4.6	6.4	4.9
17	8.7	7.2	8.4	8.0	6.8	5.3	---	---	6.6	5.6	8.1	4.9
18	8.9	7.2	8.6	8.2	6.8	5.8	---	---	7.9	6.0	6.0	4.4
19	7.5	6.9	8.7	7.9	7.0	5.2	---	---	6.4	4.9	6.4	5.2
20	7.8	7.2	8.4	8.0	7.1	4.6	---	---	5.4	4.5	5.4	3.8
21	7.7	7.3	9.2	8.1	5.0	4.1	---	---	---	---	6.0	3.9
22	8.2	7.5	9.8	7.9	5.7	4.7	---	---	---	---	6.2	4.0
23	7.8	7.5	7.9	6.3	6.7	4.9	---	---	---	---	5.6	3.7
24	7.9	7.6	6.5	6.1	6.1	5.2	6.2	4.1	6.4	4.7	4.3	3.4
25	7.8	7.4	7.1	5.9	6.5	4.8	6.5	4.3	6.1	4.6	4.8	3.2
26	8.0	7.7	7.2	6.8	6.3	4.7	---	---	5.4	4.5	4.5	3.0
27	8.3	7.8	7.1	5.8	6.6	3.9	---	---	5.2	4.5	3.9	2.9
28	8.7	8.3	8.6	6.4	6.5	3.6	---	---	5.7	4.5	3.3	2.6
29	8.8	8.5	7.7	5.1	6.4	4.2	---	---	5.6	4.9	3.2	2.7
30	8.4	7.9	5.3	3.7	6.0	4.4	7.2	5.6	5.2	4.3	---	---
31	---	---	5.8	4.5	---	---	7.1	4.8	5.8	4.6	---	---
MONTH	9.4	6.0	9.8	3.7	7.1	3.1	8.4	3.7	7.9	3.9	8.2	2.6

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.

LOCATION.--Lat 34 28'03", long 85 20'19", Chattooga County, Hydrologic Unit 03150105, on left bank 600 ft (183 m) downstream from bridge on U.S. Highway 27, 1 mi (1.6 km) southeast of Summerville, and 4 mi (6.4 km) upstream from Raccoon Creek.
DRAINAGE AREA.--193 mi^2 (500 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1937 to current year.
GAGE.--Water-stage recorder. Datum of gage is 613.47 ft (186.99 m) National Geodetic Vertical Datum of 1929 (levels by Georgia Department of Transportation). Prior to Nov. 12, 1937, nonrecording gage at same site and datum.
REMARKS.--Records good.
AVERAGE DISCHARGE.--41 years, 356 ft^3/s (10.1 m^3/s), 25.05 in/yr (636.3 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24,500 ft^3/s (694 m^3/s) Mar. 29, 1951, gage height, 21.0 ft (6.40 m); minimum daily, 38 ft^3/s (1.08 m^3/s) Oct. 17, 1937, Nov. 9, 1939.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,000 ft^3/s (85.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m /s)	Gage height (ft)	Gage height (m)
Oct. 26	1100	6940	197	15.52	4.730
Nov. 6	0100	*8400	238	16.20	4.938
Jan. 26	1300	3910	110	13.34	4.066
Mar. 10	1400	3620	103	12.94	3.944
May 9	0700	4630	131	14.20	4.328

Minimum discharge, 61 ft^3/s (1.73 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	381	354	816	422	596	210	247	676	163	125	103	81
2	985	325	705	380	558	205	237	559	158	123	98	78
3	955	308	600	346	510	300	229	417	163	123	94	78
4	547	557	533	321	467	312	225	693	157	121	98	78
5	393	4500	489	307	436	261	220	666	154	116	94	79
6	326	6210	455	362	411	248	215	473	150	112	94	77
7	283	2820	376	474	384	248	207	529	150	110	101	76
8	398	1430	349	1040	372	335	195	1390	459	110	112	75
9	1430	1060	347	1980	356	828	193	3540	404	109	101	72
10	763	862	316	1120	343	3150	196	1180	230	109	101	72
11	541	706	295	849	329	1660	207	788	195	106	93	76
12	421	593	284	709	317	1050	226	610	190	105	93	75
13	348	474	277	651	336	840	197	555	269	104	142	76
14	306	388	288	580	336	1440	179	457	189	112	105	75
15	273	357	282	492	306	1260	171	386	168	115	96	77
16	250	338	263	438	292	926	169	348	160	114	93	76
17	231	711	261	829	283	731	166	315	154	109	119	75
18	208	557	347	932	279	610	318	292	151	104	98	77
19	199	431	331	867	271	525	530	270	148	103	93	73
20	185	382	309	1490	260	457	368	246	142	100	89	72
21	173	402	288	1050	255	418	310	230	142	99	91	71
22	161	824	269	847	235	408	272	220	139	94	87	71
23	157	1650	252	717	220	368	246	224	189	96	87	68
24	153	1090	289	670	217	345	230	223	154	97	86	67
25	1010	817	1130	1760	213	340	244	198	144	139	85	70
26	5110	647	627	3260	206	373	258	193	269	142	83	70
27	1310	534	497	1600	200	329	224	181	174	107	86	69
28	818	676	417	1160	206	309	203	186	141	101	87	69
29	605	797	370	942	---	291	191	196	133	96	82	68
30	476	723	395	782	---	269	195	177	129	94	81	65
31	401	---	507	671	---	257	---	171	---	98	81	---
TOTAL	19797	31523	12964	28048	9194	19303	7068	16589	5568	3393	2953	2206
MEAN	639	1051	418	905	328	623	236	535	186	109	95.3	73.5
MAX	5110	6210	1130	3260	596	3150	530	3540	459	142	142	81
MIN	153	308	252	307	200	205	166	171	129	94	81	65
CFSM	3.31	5.45	2.17	4.69	1.70	3.23	1.22	2.77	.96	.57	.49	.38
IN.	3.82	6.08	2.50	5.41	1.77	3.72	1.36	3.20	1.07	.65	.57	.43

CAL YR 1977 TOTAL 182696 MEAN 501 MAX 7490 MIN 79 CFSM 2.60 IN 35.21
WTR YR 1978 TOTAL 158606 MEAN 435 MAX 6210 MIN 65 CFSM 2.25 IN 30.57

02398000 CHATTOOGA RIVER AT SUMMERVILLE, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1968 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
26...	1150	6900	7.0	17.0	15.5	8.7
NOV						
29...	1310	815	7.7	13.0	10.0	9.0
DEC						
28...	1100	418	7.5	-3.5	6.0	--
JAN						
24...	1030	640	7.5	8.0	8.0	11.2
FEB						
22...	1000	246	8.4	-1.0	7.5	9.7
MAR						
28...	1300	310	8.0	15.0	13.0	9.9
APR						
27...	1200	224	7.8	21.0	15.0	8.2
JUN						
27...	1000	174	7.5	24.5	21.0	7.2
JUL						
25...	1400	102	7.9	25.5	23.5	6.8
AUG						
29...	1200	82	8.1	32.0	24.0	5.2
SEP						
26...	0800	69	7.8	20.5	20.0	6.7

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
26...	79	87	2.4	9300	34	--	.13	<.02	.20	8.0
NOV										
29...	180	15	1.1	2300	74	--	.52	<.02	.10	2.0
DEC										
28...	164	12	.4	930	83	--	.42	.03	.05	1.0
JAN										
24...	189	11	.7	160	76	--	.48	.03	.11	4.0
FEB										
22...	319	7	.6	<30	104	--	.43	<.02	.24	2.0
MAR										
28...	222	10	.8	430	96	--	.52	.06	.08	2.5
APR										
27...	274	20	1.4	1615	91	--	.58	.07	.17	5.0
JUN										
27...	283	42	1.7	9300	98	--	1.0	.10	.27	3.0
JUL										
25...	421	7	1.7	3900	124	138	.77	.04	.33	4.0
AUG										
29...	463	3	.5	230	156	150	1.0	.02	.28	2.0
SEP										
26...	509	5	2.0	90	114	159	.27	.02	.56	6.0

02398037 CHATTOOGA RIVER AT CHATTOOGAVILLE, GA.

LOCATION.--Lat 34°20'08", long 85°26'43", Chattooga County, Hydrologic Unit 03150105, at bridge on Holland-Chattoogaville Road, 0.4 mi (0.6 km) downstream from Hinton Creek, and 0.7 mi (1.1 km) south of Chattoogaville.

PERIOD OF RECORD.--August 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
26...	1225	--	7.3	20.0	15.5	7.3
NOV						
29...	1415	1030	7.7	14.0	12.0	9.8
DEC						
28...	1150	633	7.7	-1.5	6.0	--
JAN						
24...	0930	802	7.8	6.0	7.5	11.2
FEB						
22...	1100	303	8.1	-1.0	7.0	9.8
MAR						
28...	1355	424	8.0	19.0	13.5	9.4
APR						
27...	1110	347	7.7	16.0	14.0	8.3
MAY						
31...	1155	262	7.8	32.0	23.0	7.4
JUN						
27...	1100	332	7.4	33.5	23.0	6.6
JUL						
25...	1300	147	7.7	37.0	25.5	6.6
AUG						
29...	1000	137	8.0	34.0	23.0	6.4
SEP						
26...	0915	113	7.9	22.5	21.0	5.7

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, CHEM-ICAL (LOW LEVEL) (MG/L)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)
OCT						
26...	88	93	--	3.6	21000	34
NOV						
29...	179	16	--	1.0	4300	81
DEC						
28...	173	15	--	1.5	930	82
JAN						
24...	197	12	--	.6	110	80
FEB						
22...	289	7	--	1.1	40	108
MAR						
28...	212	13	--	1.0	230	100
APR						
27...	257	10	--	.8	2300	103
MAY						
31...	317	10	--	1.4	230	--
JUN						
27...	188	132	--	3.0	9300	72
JUL						
25...	309	10	12	.7	40	120
AUG						
29...	386	7	12	.8	260	160
SEP						
26...	463	5	12	.5	70	112

02398037 CHATTOOGA RIVER AT CHATTOOGAVILLE, GA.--Continued

WATER QUALITY DATA. WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	ALKA- LINITY (MG/L AS CACO3)	SOLIDS. RESIDUE AT 105 DEG. C. SUS- PENDED (MG/L)	NITRO- GEN. NO2+NO3 TOTAL (MG/L AS N)	NITRO- GEN. AMMONIA TOTAL (MG/L AS N)	NITRO- GEN.AM- MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS- PHORUS. TOTAL (MG/L AS P)	CARBON. ORGANIC TOTAL (MG/L AS C)
OCT							
26...	--	128	.14	<.02	--	.28	10
NOV							
29...	--	--	.54	<.02	--	.10	3.0
DEC							
28...	--	7	.45	.03	--	.10	2.0
JAN							
24...	--	10	.50	.04	--	.10	2.0
FEB							
22...	--	1	.46	<.02	--	.15	2.0
MAR							
28...	--	7	.55	<.02	--	.09	1.0
APR							
27...	--	19	.54	.04	--	.24	4.0
MAY							
31...	--	15	1.4	<.02	--	.18	6.0
JUN							
27...	--	189	.80	.09	--	.38	6.5
JUL							
25...	126	15	.48	<.02	.21	.25	2.0
AUG							
29...	139	21	.50	.02	.21	.34	2.0
SEP							
26...	160	13	.32	<.02	.28	.49	3.0

02411800 LITTLE RIVER NEAR BUCHANAN, GA.

LOCATION.--Lat 33°47'51", long 85°07'03", Haralson County, Hydrologic Unit 03150108, on right bank 150 ft (46 m) upstream from county highway bridge, 4.5 mi (7.2 km) east of Buchanan, and 7 mi (11.3 km) upstream from mouth.
DRAINAGE AREA.--18 mi^2 (47 km^2), approximately.
PERIOD OF RECORD.--June 1959 to current year.
GAGE.--Water-stage recorder. Altitude of gage is 1,110 ft (338 m), from topographic map.
REMARKS.--Records good except those for period of no gage-height record, May 20 to June 19, which are poor.
AVERAGE DISCHARGE.--19 years, 34.1 ft^3/s (0.966 m^3/s), 25.73 in/yr (653.5 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft^3/s (108 m^3/s) Mar. 14, 1966, gage height, 12.58 ft (3.834 m), from rating curve extended above 2,300 ft^3/s (65.1 m^3/s) on basis of slope-area measurement at gage height, 12.47 ft (3.801 m); minimum, 1.6 ft^3/s (0.045 m^3/s) Oct. 5, 6, 1970.
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft^3/s (14.2 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 9	0600	1190	33.7	6.69	2.039	Jan. 25	2245	596	16.9	3.91	1.192
Nov. 5	0615	*1450	41.1	8.00	2.439						

Minimum daily discharge, 3.2 ft^3/s (0.091 m^3/s) Sept. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	18	51	25	44	31	22	176	19	7.9	6.8	4.3
2	11	18	39	22	43	30	21	99	21	7.4	4.3	4.6
3	9.0	20	34	20	39	37	21	67	30	7.5	3.8	4.6
4	7.5	183	31	19	36	30	20	84	28	6.8	7.0	4.9
5	7.2	751	31	19	34	26	20	61	22	6.2	10	5.1
6	6.7	197	26	55	32	26	20	46	17	5.3	11	3.9
7	6.4	159	23	48	29	27	19	71	45	5.7	38	3.7
8	36	137	21	150	29	36	18	130	100	5.5	26	3.4
9	504	125	26	156	30	64	18	177	60	4.6	64	3.4
10	134	111	22	92	30	105	17	88	45	4.2	40	3.3
11	114	88	20	60	28	67	36	60	28	4.7	22	3.2
12	97	60	20	48	27	53	36	48	25	4.4	19	3.4
13	62	42	19	49	35	44	40	57	40	4.6	22	3.8
14	35	33	22	40	30	56	28	39	32	5.0	15	4.0
15	24	26	21	34	27	46	23	32	23	6.4	12	11
16	19	25	19	31	28	40	20	29	18	11	12	8.3
17	17	44	21	72	27	35	19	26	16	7.2	11	7.0
18	14	30	27	56	31	32	123	27	14	5.6	8.2	5.7
19	14	24	21	68	28	31	149	24	13	4.5	7.2	5.2
20	12	22	20	113	26	30	81	22	14	3.9	6.7	4.7
21	11	22	19	68	26	33	53	20	13	3.6	6.3	4.6
22	10	37	18	52	25	38	40	20	12	3.3	6.1	4.0
23	9.2	66	17	43	24	31	33	19	11	11	6.3	3.9
24	9.1	46	18	57	24	28	30	18	9.0	13	6.6	4.0
25	87	37	68	340	23	27	62	18	12	7.9	5.0	4.5
26	108	30	37	228	19	27	45	18	23	4.9	5.6	4.3
27	56	27	29	129	17	26	37	17	14	4.6	5.9	4.2
28	37	43	24	108	31	25	30	17	10	4.5	5.8	3.7
29	27	40	22	75	---	24	27	23	9.0	3.9	4.6	3.6
30	23	36	32	56	---	23	25	21	8.2	3.6	4.3	3.8
31	20	---	29	49	---	24	---	20	---	4.5	4.3	---
TOTAL	1539.1	2497	827	2382	822	1152	1133	1574	731.2	183.2	406.8	138.1
MEAN	49.6	83.2	26.7	76.8	29.4	37.2	37.8	50.8	24.4	5.91	13.1	4.60
MAX	504	751	68	340	44	105	149	177	100	13	64	11
MIN	6.4	18	17	19	17	23	17	17	8.2	3.3	3.8	3.2
CFSM	2.76	4.62	1.48	4.27	1.63	2.07	2.10	2.82	1.36	.33	.73	.26
IN.	3.18	5.16	1.71	4.92	1.70	2.38	2.34	3.25	1.51	.38	.84	.29

CAL YR 1977 TOTAL 16688.4 MEAN 45.7 MAX 1220 MIN 3.3 CFSM 2.54 IN 34.49
WTR YR 1978 TOTAL 13385.4 MEAN 36.7 MAX 751 MIN 3.2 CFSM 2.04 IN 27.66

02411930 TALLAPOOSA RIVER BELOW TALLAPOOSA, GA.

LOCATION.--Lat 33°44'27", long 85°20'11", Haralson County, Hydrologic Unit 03150108, at bridge on U.S. Highway 78, 0.4 mi (0.6 km) upstream from Walker Creek, and 2.7 mi (4.3 km) west of Tallapoosa.

DRAINAGE AREA.--270 mi^2 (700 km^2), approximately.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
NOV 21...	1530	348	6.4	18.5	9.5	10.6
JAN 17...	0910	534	6.5	3.5	3.5	12.7
FEB 14...	1000	426	6.7	4.0	7.0	10.4
MAR 21...	1040	384	7.0	20.0	14.0	9.6
APR 19...	1230	1920	6.8	21.0	17.0	8.4
JUN 20...	1220	288	6.7	31.5	23.0	8.2
JUL 17...	1040	210	6.9	28.0	23.5	7.3
AUG 22...	1110	149	7.0	27.5	25.0	7.2

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
NOV 21...	34	15	.4	105	--	.15	<.02	.03	1.0
JAN 17...	33	17	.5	350	--	.18	.02	.03	3.0
FEB 14...	31	11	.5	130	--	.15	<.02	.02	<1.0
MAR 21...	31	10	.3	230	--	.08	<.02	.03	<1.0
APR 19...	32	108	2.5	4300	--	.13	.02	.14	4.0
JUN 20...	34	15	.8	230	--	.27	<.02	.03	3.0
JUL 17...	32	40	.6	4300	12	.16	<.02	.06	2.5
AUG 22...	41	17	.7	90	15	.12	<.02	.04	<1.0

02413210 LITTLE TALLAPOOSA RIVER BELOW BOWDON, GA.

LOCATION.--Lat 33°29'34", long 85°16'45", Carroll County, Hydrologic Unit 03150108, at bridge on State Highway 100, 1.9 mi (3.1 km) upstream from Indian Creek, and 3.8 mi (6.1 km) southwest of Bowdon.

PERIOD OF RECORD.--July 1974 to current year.

REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT 18...	1000	123	6.9	11.5	17.0	7.9
NOV 21...	1400	287	6.2	20.0	9.5	9.3
DEC 15...	1205	312	6.9	16.0	9.0	8.0
JAN 17...	1015	493	6.5	5.0	4.0	11.2
FEB 14...	1100	418	6.7	5.0	7.0	11.5
MAR 21...	1135	360	6.9	19.0	14.5	9.2
APR 19...	1100	563	6.7	20.0	17.0	6.3
MAY 24...	1145	222	7.0	27.0	22.0	7.1
JUN 20...	1135	187	6.7	30.5	23.0	7.1
JUL 17...	1155	140	7.1	30.5	24.0	6.0
AUG 22...	1215	118	6.8	28.0	25.0	6.1
SEP 18...	1035	60	6.8	30.5	23.0	4.2

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	ALKA-LINITY (MG/L AS CACO3)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT 18...	69	28	1.3	150	--	.70	.28	.15	3.0
NOV 21...	58	18	.8	430	--	.37	.20	.11	3.0
DEC 15...	67	16	.9	40	--	.67	.42	.11	4.0
JAN 17...	46	34	.7	230	--	.38	.11	.11	4.0
FEB 14...	46	19	.8	150	--	.41	.17	.13	<1.0
MAR 21...	49	16	1.0	230	--	.45	.09	.10	<1.0
APR 19...	66	25	3.3	2300	--	.61	.27	.45	3.5
MAY 24...	52	14	.9	430	--	.79	.03	.60	3.0
JUN 20...	51	18	.7	90	--	.64	.04	.15	4.0
JUL 17...	117	12	2.0	230	21	.90	2.2	3.2	5.0
AUG 22...	72	16	.8	230	17	.98	.20	.24	<1.0
SEP 18...	108	9	--	430	25	1.1	1.1	.80	3.0

LAKES AND RESERVOIRS IN MOBILE RIVER BASIN

02381400 CARTERS LAKE.--Lat 34°36'50", long 84°40'16", Murray County, Hydrologic Unit 03150102, at forebay of dam on Coosawattee River, 1.3 mi (2.1 km) upstream from Talking Rock Creek, 1.3 mi (2.1 km) east of Carters, 1.9 mi (3.1 km) upstream from Louisville and Nashville Railway bridge, and at mile 26.8 (43.1 km). DRAINAGE AREA, 376 mi² (974 km²). PERIOD OF RECORD, November 1974 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

Lake is formed by rolled rock-filled dam. Emergency spillway, crest elevation, 1,070 ft (326.14 m), is equipped with 5 taintor gates 42 ft (12.8 m) wide by 36.6 ft (11.2 m) high. There is one sluice 16.5 ft (5.0 m) in diameter. Storage began Nov. 12, 1974. Lake first reached minimum pool, elevation, 1,022 ft (311.51 m) Mar. 17, 1975. Power operation began July 19, 1975. Capacity at primary flood control pool elevation, 1,099 ft (334.98 m), 472,800 acre-ft (583 hm³). Capacity at maximum power pool elevation, 1,072 ft (326.75 m), 377,100 acre-ft (465 hm³). Dead storage below elevation 1,022 ft (311.51 m), 242,200 acre-ft (299 hm³). Lake is used for flood control and power. Capacity table and monthend elevations furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 472,400 acre-ft (582 hm³) Apr. 8, 1977, elevation, 1,099.16 ft (335.024 m); minimum, after first filling, 356,200 acre-ft (434 hm³) Oct. 22, 1976, elevation, 1,064.30 ft (324.399 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 422,100 acre-ft (520 hm³) Nov. 10, elevation, 1,085.59 ft (330.888 m); minimum, 362,300 acre-ft (447 hm³) Dec. 8, elevation, 1,067.58 ft (325.398 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1073.68	381700	-	-
Oct. 31................	1072.39	377500	-4200	-68
Nov. 30................	1072.47	377800	+300	+5
Dec. 31................	1070.27	370800	-7000	-114
CAL YR 1977	-	-	-1600	-2
Jan. 31................	1071.75	375500	+4700	+76
Feb. 28................	1070.50	371500	-4000	-72
Mar. 31................	1070.10	370200	-1300	-21
Apr. 30................	1074.33	383800	+13600	+229
May 31................	1071.68	375300	-8500	-138
June 30................	1069.55	368500	-6800	-114
July 31................	1073.76	382000	+13500	+220
Aug. 31................	1070.30	370900	-11100	-181
Sept. 30................	1073.61	381500	+10600	+178
WTR YR 1978	-	-	-200	0

02382400 CARTERS RE-REGULATION DAM.--Lat 34°36'15", long 84°41'29", Murray County, Hydrologic Unit 03150102, at afterbay of main dam, on Coosawattee River, 0.2 mi (0.3 km) downstream from Talking Rock Creek, 0.2 mi (0.3 km) upstream from Louisville and Nashville Railway bridge, 1.5 mi (2.4 km) downstream from main dam and at mile 25.3 (40.7 km). DRAINAGE AREA, 530 mi² (1,370 km²). PERIOD OF RECORD, July 1975 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

Reservoir is formed by concrete gravity dam with earth dikes on either side. Spillway, crest elevation, 662.5 ft (201.93 m) is equipped with 4 taintor gates 42 ft (12.8 m) wide by 36.5 ft (11.1 m) high, capacity at maximum storage pool elevation, 698 ft (212.8 m), 17,600 acre-ft (21.7 hm³). Dead storage, 290 acre-ft (0.36 hm³). The reservoir is used for storage and re-regulation of power releases from Carters main dam. Capacity table and monthend elevations furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 18,800 acre-ft (23.2 hm³) Apr. 14, 1977, elevation, 699.36 ft (213.165 m); minimum, 500 acre-ft (0.62 hm³) June 30, 1975, elevation, 666.12 ft (203.033 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 18,000 acre-ft (22.2 hm³) June 27, elevation, 698.40 ft (212.872 m); minimum, 1,000 acre-ft (1.23 hm³) Nov. 7, elevation, 671.35 ft (204.627 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	679.55	3800	-	-
Oct. 31................	687.55	9300	+5500	+89
Nov. 30................	683.31	6300	-3000	-50
Dec. 31................	684.70	7300	+1000	+16
CAL YR 1977	-	-	+1400	+2
Jan. 31................	687.51	9200	+1900	+31
Feb. 28................	693.45	13800	+4600	+83
Mar. 31................	694.23	14500	+700	+11
Apr. 30................	677.82	2900	-11600	-195
May 31................	688.22	9700	+6800	+111
June 30................	691.92	12600	+2900	+49
July 31................	681.69	5200	-7400	-120
Aug. 31................	692.64	13200	+8000	+130
Sept. 30................	678.50	3300	-9900	-166
WTR YR 1978	-	-	-500	-1

LAKES AND RESERVOIRS IN MOBILE RIVER BASIN--Continued

02393500 ALLATOONA RESERVOIR.--Lat 34°09'46", long 84°43'40", Bartow County, Hydrologic Unit 03150104, at forebay of dam on Etowah River, 2.8 mi (4.5 km) upstream from Nashville, Chattanooga, & St. Louis Railway bridge, 4 mi (6.4 km) east of Cartersville, and 6 mi (9.7 km) upstream from Pumpkinvine Creek. DRAINAGE AREA, 1,110 mi^2 (2,870 km^2), approximately. PERIOD OF RECORD, December 1949 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level (levels by Corps of Engineers).

Lake is formed by concrete gravity dam. Spillway, crest elevation, 835.0 ft (254.51 m) is equipped with nine taintor gates 40 ft (12.2 m) wide by 25 ft (7.6 m) high. There are four sluices 5.67 ft (1.73 m) by 10 ft (3.05 m) high and one sluice 4.0 ft (1.22 m) in diameter. Storage began Dec. 27, 1949; water in lake first reached minimum pool elevation Feb. 5, 1950. Total capacity at elevation 860.0 ft (262.13 m), top of gates, is 670,000 acre-ft (826 hm^3), of which 587,100 acre-ft (724 hm^3) is controlled storage above 800 ft (243.84 m), minimum pool. Lake is used for flood control and power. Records furnished by Corps of Engineers.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 693,800 acre-ft (855 hm^3) Apr. 10, 1964, elevation, 861.19 ft (262.491 m); minimum, 119,600 acre-ft (147 hm^3) Dec. 4, 1954, elevation, 809.34 ft (246.69 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 434,800 acre-ft (536 hm^3) May 11, elevation, 845.34 ft (257.660 m); minimum, 212,500 acre-ft (262 hm^3) Dec. 15, elevation, 824.25 ft (251.231 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	833.04	291300	-	-
Oct. 31................	836.21	324400	+33100	+538
Nov. 30................	829.55	257700	-66700	-1121
Dec. 31................	826.00	226600	-31100	-506
CAL YR 1977	-	-	+4600	+6
Jan. 31................	833.40	294900	+68300	+1111
Feb. 28................	830.42	265800	-29100	-524
Mar. 31................	836.77	330600	+64800	+1054
Apr. 30................	841.26	382600	+52000	+874
May 31................	840.23	370200	-12400	-202
June 30................	839.76	364600	-5600	-94
July 31................	838.28	347500	-17100	-278
Aug. 31................	838.37	348500	+1000	+16
Sept. 30................	835.94	321500	-27000	-454
WTR YR 1978	-	-	+30200	+42

03545000 HIWASSEE RIVER AT PRESLEY, GA.

LOCATION.--Lat 34°54'17", long 83°42'01", Towns County, Hydrologic Unit 06020002, on left bank 0.1 mi (0.2 km) downstream from Cynth Creek, 0.5 mi (0.8 km) southeast of Presley, 1.4 mi (2.3 km) upstream from Hightower Creek, and at mile 133.9 (215.4 km).

DRAINAGE AREA.--45.5 mi^2 (118 km^2).

PERIOD OF RECORD.--October 1941 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 973: 1942. WSP 1910: 1957-58, 1959-60(P).

GAGE.--Water-stage recorder. Datum of gage is 1,932.69 ft (589.08 m) National Geodetic Vertical Datum of 1929.

REMARKS.--Records good. Records of chemical analyses for the water years 1969-74 are published in reports of the Geological Survey.

AVERAGE DISCHARGE.--37 years, 139 ft^3/s (3.94 m^3/s), 41.49 in/yr (1,053.8 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,700 ft^3/s (161 m^3/s) Mar. 11, 1952, gage height, 15.24 ft (4.645 m), from rating curve extended above 3,000 ft^3/s (85.0 m^3/s) on basis of slope-area and contracted-opening measurements at gage heights 12.80 and 15.24 ft (3.901 and 4.645 m), respectively; minimum, 15 ft^3/s (0.42 m^3/s) Dec. 16, 1958, gage-height, 1.48 ft (0.451 m), result of a freezeup; minimum daily, 23 ft^3/s (0.65 m^3/s) Sept. 29, Oct. 5, 6, 8, 10-13, 1954, Sept. 7, 1957.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft^3/s (22.7 m^3/s) and maximum (*):

Date	Time	Discharge (ft /s)	Discharge (m /s)	Gage height (ft)	Gage height (m)
Oct. 25	2015	1550	43.9	6.18	1.884
Nov. 6	0215	*2620	74.2	8.27	2.521
Jan. 8	1845	1090	30.9	5.07	1.545
Jan. 25	2215	2130	60.3	7.34	2.237
Aug. 9	1615	2340	66.3	7.75	2.362

Minimum discharge, 31 ft^3/s (0.88 m^3/s) Aug. 2, 3, gage height, 1.27 ft (0.387 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	86	211	165	262	125	116	95	83	51	39	69
2	90	91	197	158	250	127	113	90	80	50	34	69
3	61	125	181	151	236	146	110	86	79	49	39	67
4	56	310	180	145	224	135	107	119	76	48	57	64
5	53	989	319	142	215	125	105	104	73	47	61	62
6	52	1300	296	154	205	122	103	97	72	48	45	61
7	50	570	238	149	195	121	99	100	90	46	453	60
8	92	386	210	483	189	148	97	132	154	45	261	58
9	218	305	201	542	184	180	96	168	145	46	873	56
10	128	262	180	327	179	278	95	140	110	45	434	55
11	97	228	171	266	171	210	109	124	99	42	282	78
12	92	205	164	238	168	184	99	115	96	42	267	58
13	74	187	160	224	177	166	99	156	93	42	224	56
14	69	174	209	205	167	212	92	136	83	44	181	62
15	66	165	194	187	160	203	90	129	80	59	185	58
16	64	176	180	177	157	184	89	120	78	55	169	56
17	61	264	176	263	153	170	88	111	75	44	150	53
18	59	209	206	222	150	159	121	105	72	42	134	52
19	57	185	185	268	147	150	142	101	71	41	121	50
20	55	171	177	349	142	143	115	96	79	40	121	49
21	53	165	168	267	142	145	106	93	72	38	112	48
22	52	167	159	233	136	145	100	89	67	37	102	55
23	51	179	153	213	135	137	96	110	65	44	95	54
24	51	174	164	215	133	133	94	114	63	50	91	52
25	362	167	288	795	129	131	109	97	61	43	87	51
26	352	159	222	962	126	140	105	96	60	41	84	50
27	182	152	196	515	122	131	96	94	58	42	84	48
28	138	178	179	393	128	125	91	95	56	43	80	46
29	115	170	170	333	---	124	89	95	55	37	77	45
30	101	179	176	300	---	122	92	96	53	35	75	45
31	92	---	169	278	---	119	---	87	---	37	72	---
TOTAL	3086	8078	6079	9319	4782	4740	3063	3390	2398	1373	5089	1687
MEAN	99.5	269	196	301	171	153	102	109	79.9	44.3	164	56.2
MAX	362	1300	319	962	262	278	142	168	154	59	873	78
MIN	50	86	153	142	122	119	88	86	53	35	34	45
CFSM	2.19	5.91	4.31	6.62	3.76	3.36	2.24	2.40	1.76	.97	3.60	1.24
IN.	2.52	6.60	4.97	7.62	3.91	3.88	2.50	2.77	1.96	1.12	4.16	1.38

CAL YR 1977 TOTAL 58682 MEAN 161 MAX 1690 MIN 35 CFSM 3.54 IN 47.98
WTR YR 1978 TOTAL 53084 MEAN 145 MAX 1300 MIN 34 CFSM 3.19 IN 43.40

03550500 NOTTELY RIVER NEAR BLAIRSVILLE, GA.

LOCATION.--Lat 34°50'28", long 83°56'10", Union County, Hydrologic Unit 06020002, on left bank 250 ft (76 m) upstream from county road bridge, 0.1 mi (0.2 km) downstream from Arkaqua Creek, 0.2 mi (0.3 km) upstream from Akins Creek, 2.7 mi (4.3 km) southeast of Blairsville, and at mile 44.3 (71.3 km).
DRAINAGE AREA.--74.8 mi^2 (194 km^2).
PERIOD OF RECORD.--January 1942 to current year.
REVISED RECORDS.--WSP 1053: 1942(M), 1943. WSP 1236: 1946(M), 1950(M).
GAGE.--Water-stage recorder. Datum of gage is 1,812.47 ft (552.44 m) National Geodetic Vertical Datum of 1929.
REMARKS.--Records good. Occasional regulation by Lake Trahlyta in Vogel State Park.
AVERAGE DISCHARGE.--36 years, 188 ft^3/s (5.32 m^3/s), 34.13 in/yr (866.9 mm/yr).
EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,900 ft^3/s (365 m^3/s) Aug. 23, 1967, gage height, 21.04 ft (6.413 m), from floodmark, from rating curve extended above 3,400 ft^3/s (96.3 m^3/s) on basis of contracted-opening measurements at gage heights 13.29 ft (4.051 m), 16.78 ft (5.115 m), and 21.04 ft (6.413 m); minimum, 27 ft^3/s (0.76 m^3/s) Sept. 8, Oct. 7, 1947, gage height, 1.77 ft (0.539 m).
EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,000 ft^3/s (56.6 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Oct. 25	1945	2680	75.9	7.77	2.368	Jan. 25	2115	*3300	93.5	9.00	2.743
Nov. 6	0130	2810	79.6	8.02	2.444	Aug. 7	1215	2400	68.0	7.22	2.201
Jan. 8	1745	2340	66.3	7.08	2.158						

Minimum discharge, 39 ft^3/s (1.10 m^3/s) July 30, 31, gage height, 1.95 ft (0.594 m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	128	304	221	329	162	154	155	103	60	69	68
2	167	130	271	207	314	166	151	140	100	58	47	68
3	98	162	241	195	294	201	147	133	100	56	62	66
4	85	357	239	187	279	178	144	210	96	54	132	62
5	80	1330	513	183	269	165	143	179	91	53	160	61
6	76	1580	404	204	256	162	141	160	89	54	167	61
7	73	661	311	196	249	160	138	166	113	53	1000	59
8	127	434	273	954	238	210	135	315	201	51	386	58
9	347	338	262	899	232	295	134	399	171	57	678	55
10	189	288	231	482	224	450	132	267	122	58	420	53
11	145	249	215	371	217	314	149	222	111	53	354	76
12	123	224	203	327	212	273	139	199	107	50	426	61
13	111	205	198	308	235	243	142	266	115	51	301	60
14	103	191	300	279	214	336	130	219	95	54	214	59
15	97	180	269	255	203	297	127	208	91	72	230	60
16	92	200	242	240	198	267	126	189	88	81	192	58
17	87	412	232	495	195	244	124	174	85	57	158	55
18	84	271	283	342	192	227	171	164	84	52	137	53
19	82	233	245	425	187	214	267	153	82	50	123	51
20	79	210	233	608	181	204	185	146	104	49	116	50
21	77	200	216	415	180	205	165	139	93	47	107	48
22	75	199	202	345	174	208	153	133	82	45	98	53
23	73	227	192	310	171	191	146	172	77	48	93	58
24	72	219	233	317	169	184	141	165	74	53	88	53
25	599	206	563	1340	166	181	167	135	72	63	85	54
26	511	191	338	1430	162	189	164	132	71	58	83	51
27	266	181	286	734	158	178	149	135	69	52	83	49
28	206	238	254	546	168	171	141	126	66	53	79	48
29	173	223	235	449	---	166	136	121	64	47	80	46
30	153	237	242	392	---	161	144	117	62	44	78	46
31	138	---	230	355	---	157	---	110	---	76	72	---
TOTAL	4665	9904	8460	14011	6066	6759	4485	5549	2878	1709	6318	1700
MEAN	150	330	273	452	217	218	150	179	95.9	55.1	204	56.7
MAX	599	1580	563	1430	329	450	267	399	201	81	1000	76
MIN	72	128	192	183	158	157	124	110	62	44	47	46
CFSM	2.01	4.41	3.65	6.04	2.90	2.91	2.01	2.39	1.28	.74	2.73	.76
IN.	2.32	4.93	4.21	6.97	3.02	3.36	2.23	2.76	1.43	.85	3.14	.85

CAL YR 1977 TOTAL 86633 MEAN 237 MAX 3620 MIN 50 CFSM 3.17 IN 43.08
WTR YR 1978 TOTAL 72504 MEAN 199 MAX 1580 MIN 44 CFSM 2.66 IN 36.06

03558000 TOCCOA RIVER NEAR DIAL, GA.

LOCATION.--Lat 34°47'24", long 84°14'24", Fannin County, Hydrologic Unit 06020003, on right bank 1.4 mi (2.3 km) upstream from Shallowford Bridge, 1.8 mi (2.9 km) upstream from Stanley Creek, 2.5 mi (4.0 km) northwest of Dial, and at mile 69.1 (111.2 km).

DRAINAGE AREA.--177 mi^2 (458 km^2).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1912 to current year. Prior to January 1913 monthly discharges only, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1386: 1923(M), 1924, 1927(M), 1929-32(M), 1933, 1934(M), 1944(M).

GAGE.--Water-stage recorder. Datum of gage is 1,792.08 ft (546.23 m) National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1927, water-stage recorder and Oct. 1, 1927, to Nov. 16, 1928, nonrecording gage at same site and datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--66 years, 497 ft^3/s (14.1 m^3/s), 38.13 in/yr (968.5 mm/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,700 ft^3/s (416 m^3/s), Aug. 23, 1967, gage height, 13.73 ft (4.185 m), from rating curve extended above 5,000 ft^3/s (142 m^3/s) on basis of slope-area measurement at gage height 11.20 ft (3.414 m), and a contracted-opening measurement at 13.73 ft (4.185 m); minimum, 60 ft^3/s (1.70 m^3/s) Sept. 6, 1925, gage height, 0.40 ft (0.122 m).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of November 1906 reached a stage of 18.5 ft (5.64 m) and is highest known since about 1840, from reports of Tennessee Valley Authority.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,400 ft^3/s (68.0 m^3/s) and maximum (*):

Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)	Date	Time	Discharge (ft^3/s)	Discharge (m^3/s)	Gage height (ft)	Gage height (m)
Nov. 6	0100	2940	83.2	5.40	1.646	Jan. 26	0145	*3970	112	6.42	1.957
Jan. 8	2145	2830	80.1	5.25	1.600						

Minimum daily discharge, 184 ft^3/s (5.21 m^3/s) Sept. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	254	304	680	595	837	499	454	519	377	263	343	277
2	655	301	595	570	816	486	446	506	369	258	212	273
3	380	336	543	544	778	584	442	442	369	253	213	271
4	280	470	528	528	746	531	438	563	363	247	507	259
5	254	1950	739	522	726	487	442	522	351	240	696	253
6	241	2200	692	567	702	477	430	476	346	239	507	252
7	232	1350	593	564	674	471	422	498	431	238	1390	248
8	305	960	553	1240	660	587	414	755	612	234	810	242
9	942	765	597	1550	648	721	414	1130	518	237	981	235
10	535	672	534	945	635	1130	410	717	413	263	842	229
11	360	596	508	810	618	771	474	613	537	231	628	269
12	300	546	495	737	605	673	446	568	540	222	591	249
13	268	510	487	723	654	611	438	669	613	222	562	256
14	254	490	671	676	616	740	410	576	456	233	467	248
15	245	470	620	634	583	679	402	558	400	280	640	245
16	236	486	560	606	571	631	394	533	382	317	592	238
17	227	828	546	890	562	595	390	507	363	239	463	231
18	221	590	610	782	558	575	482	491	352	222	415	222
19	218	523	549	820	539	555	775	478	345	216	389	214
20	215	491	534	1100	529	537	524	464	364	211	373	210
21	209	484	508	846	527	534	474	455	373	204	391	205
22	223	477	490	759	514	552	450	443	343	199	345	203
23	223	543	476	713	504	515	438	488	333	201	324	199
24	217	511	530	730	500	502	430	512	310	214	318	212
25	510	484	1160	1870	496	499	490	464	300	267	311	214
26	1000	461	758	2600	488	519	498	436	296	251	306	200
27	498	445	663	1410	475	498	454	424	290	238	329	196
28	406	541	620	1160	494	481	430	421	283	238	338	191
29	360	521	597	1030	---	470	418	419	275	208	298	186
30	336	520	624	948	---	461	442	407	270	198	289	184
31	318	---	614	883	---	454	---	395	---	212	285	---
TOTAL	10922	19825	18674	28352	17055	17815	13571	16449	11574	7295	15155	6911
MEAN	352	661	602	915	609	575	452	531	386	235	489	230
MAX	1000	2200	1160	2600	837	1130	775	1130	613	317	1390	277
MIN	209	301	476	522	475	454	390	395	270	198	212	184
CFSM	1.99	3.73	3.40	5.17	3.44	3.25	2.55	3.00	2.18	1.33	2.76	1.30
IN.	2.30	4.17	3.92	5.96	3.58	3.74	2.85	3.46	2.43	1.53	3.19	1.45

CAL YR 1977 TOTAL 205386 MEAN 563 MAX 6150 MIN 163 CFSM 3.18 IN 43.17
WTR YR 1978 TOTAL 183598 MEAN 503 MAX 2600 MIN 184 CFSM 2.84 IN 38.59

03558000 TOCCOA RIVER NEAR DIAL, GA.--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM- FLOW, INSTAN- TANEOUS (CFS)	TEMPER- ATURE (DEG C)	TUR- BID- ITY (NTU)	SEDI- MENT, SUS- PENDED (MG/L)	SEDI- MENT DIS- CHARGE, SUS- PENDED (T/DAY)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM
MAR 22...	0945	555	10.0	5.0	12	18	86
MAY 03...	1000	438	11.5	5.0	11	13	86
JUN 13...	0800	665	17.5	96	176	316	95
JUL 25...	0855	240	21.5	3.0	19	12	100
SEP 06...	0800	251	18.0	1.0	11	7.5	63

03566800 SOUTH CHICKAMAUGA CREEK AT GRAYSVILLE, GA.

LOCATION.--Lat 34°58'39", long 85°08'42", Catoosa County, Hydrologic Unit 06020001, at bridge on Graysville Road at Graysville, 200 ft (61 m) above dam at Swanson Mill, and 19.5 mi (31.4 km) above mouth.
DRAINAGE AREA.--198 mi^2 (513 km^2).
PERIOD OF RECORD.--August 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS)	PH (UNITS)	TEMPERATURE, AIR (DEG C)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)
OCT						
26...	0900	2850	7.0	16.0	15.0	8.0
NOV						
29...	1020	655	7.6	10.5	10.0	9.6
DEC						
28...	0900	274	7.7	-7.5	3.0	--
JAN						
25...	0830	965	7.8	5.5	6.5	11.2
FEB						
21...	1510	166	8.1	3.0	7.5	11.4
MAR						
28...	1010	250	7.6	10.0	10.5	10.6
APR						
26...	1300	166	7.8	14.0	14.5	8.0
JUN						
26...	1500	80	8.1	29.0	25.0	7.2
AUG						
29...	1400	70	8.0	31.5	24.0	6.4

DATE	SPFCIFIC CONDUCTANCE (MICROMHOS)	TURBIDITY (JTU)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, EC BROTH (MPN)	HARDNESS (MG/L AS CACO3)	ALKALINITY (MG/L AS CACO3)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT										
26...	--	81	3.6	43000	33	--	.19	<.02	.24	12
NOV										
29...	137	26	.9	9300	66	--	.45	.03	.08	2.0
DEC										
28...	160	13	.5	750	81	--	.47	.02	.03	2.0
JAN										
25...	146	48	1.0	2300	80	--	.60	.05	.10	3.0
FEB										
21...	215	6	.5	40	106	--	.28	.02	<.02	<1.0
MAR										
28...	173	18	.6	1500	88	--	.50	<.02	.04	1.0
APR										
26...	215	19	.6	23000	111	--	.49	.03	.07	4.0
JUN										
26...	243	6	.5	430	126	--	.39	.05	.03	<1.0
AUG										
29...	254	17	.6	430	174	113	.43	<.02	.06	2.0

03567340 WEST CHICKAMAUGA CREEK NEAR LAKEVIEW, GA.

LOCATION.--Lat 34°57'26", long 85°12'20", Catoosa County, Hydrologic Unit 06020001, at Dyer Bridge on Cloud Springs Road, 3 mi (4.8 km) southeast of Lakeview.
DRAINAGE AREA.--148 mi^2 (383 km^2).
PERIOD OF RECORD.--August 1974 to current year.
REMARKS.--Laboratory chemical analyses by the Laboratory Services Section, Environmental Protection Division, Georgia Department of Natural Resources. Field determination of Discharge, Air Temperature, Water Temperature, pH, and Dissolved Oxygen by U.S. Geological Survey.

WATER QUALITY DATA, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS)	PH (UNITS)	TEMPER-ATURE, AIR (DEG C)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)
OCT						
26...	0935	2640	7.1	16.0	14.5	7.2
NOV						
29...	1105	1070	7.3	12.5	10.0	9.6
DEC						
28...	0930	419	7.7	-6.5	4.5	--
JAN						
25...	0900	1050	7.8	8.0	7.0	12.0
FEB						
21...	1600	105	7.7	3.0	8.0	11.5
MAR						
28...	1050	168	7.6	10.5	11.5	9.4
APR						
26...	1415	142	7.4	15.0	15.0	6.2
MAY						
30...	1510	92	7.4	31.0	22.0	5.4
JUN						
26...	1415	81	7.7	31.0	25.0	6.2
JUL						
24...	0900	47	8.0	27.0	24.0	--
AUG						
29...	1340	70	7.9	32.0	24.0	5.8
SEP						
25...	1240	44	7.5	27.0	22.5	4.9

DATE	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	TUR-BID-ITY (JTU)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, EC BROTH (MPN)	HARD-NESS (MG/L AS CACO3)	ALKA-LINITY (MG/L AS CACO3)	SOLIDS, RESIDUE AT 105 DEG. C, SUS-PENDED (MG/L)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CARBON, ORGANIC TOTAL (MG/L AS C)
OCT											
26...	95	78	2.9	9300	43	--	46	.16	<.02	.26	8.0
NOV											
29...	203	31	1.0	9300	102	--	42	.55	.05	.12	3.0
DEC											
28...	218	16	.5	90	114	--	8	.59	<.02	.07	2.0
JAN											
25...	205	38	1.8	9300	98	--	46	.68	.07	.17	6.0
FEB											
21...	256	6	1.1	150	124	--	<1	.43	.02	.11	1.5
MAR											
28...	241	11	.5	190	126	--	7	.60	<.02	.08	1.0
APR											
26...	247	16	1.2	680	120	--	15	.56	.04	.22	4.0
MAY											
30...	265	16	1.0	930	130	--	21	.75	<.02	.18	3.0
JUN											
26...	295	15	1.1	150	134	--	17	.60	.08	.27	2.0
JUL											
24...	310	18	1.7	390	134	140	31	.51	.08	.37	4.0
AUG											
29...	285	17	2.3	2900	174	129	31	.29	.06	.31	2.0
SEP											
25...	348	17	1.3	430	134	154	39	.64	.05	.60	4.0

LAKES IN TENNESSEE RIVER BASIN

03553000 **NOTTELY LAKE.**--Lat 34°57'29", long 84°05'22", Union County, Hydrologic Unit 06020002, at dam on Nottely River, 1.3 mi (2.1 km) upstream from Dooley Creek, 1.7 mi (2.7 km) southwest of Ivylog, 2.5 mi (4.0 km) upstream from Georgia-North Carolina State line, and at mile 21.0 (33.8 km). DRAINAGE AREA, 214 mi^2 (554 km^2). PERIOD OF RECORD, January 1942 to current year. GAGE, water-stage recorder. Datum of gage is at mean sea level.

Lake is formed by rock and rolled earthfill dam with side channel spillway equipped with flashboards. Storage began Jan. 24, 1942; water in lake first reached minimum pool elevation Jan. 26, 1942. Total capacity at elevation 1,780.00 ft (542.54 m), top of flashboards, is 87,900 ft^3/s-days (215.1 hm^3), of which 81,500 ft^3/s-days (199.4 hm^3) is controlled storage above elevation 1,690.00 ft (515.11 m), minimum pool. Lake is used for navigation, flood control, and power. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum contents, 94,100 ft^3/s-days (230.3 hm^3) Apr. 20, 1943, elevation, 1,780.50 ft (542.696 m); maximum elevation, 1,781.47 ft (542.992 m) May 28, 1973; minimum (after first filling), 200 ft^3/s-days (0.489 hm^3) Oct. 6, 1947, elevation, 1,638.6 ft (499.44 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 61,100 ft^3/s-days (149.5 hm^3) June 26, elevation, 1,765.03 ft (537.981 m); minimum, 39,600 ft^3/s-days (96.9 hm^3) Jan. 16, elevation, 1,747.24 ft (532.559 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1753.80	46600	-	-
Oct. 31................	1750.05	42500	-4100	-132
Nov. 30................	1751.37	43900	+1400	+47
Dec. 31................	1752.15	44800	+900	+29
CAL YR 1977	-	-	+6400	+17
Jan. 31................	1752.22	44800	0	0
Feb. 28................	1749.52	41900	-2900	-104
Mar. 31................	1754.74	47700	+5800	+187
Apr. 30................	1760.54	54900	+7200	+240
May 31................	1764.68	60600	+5700	+184
June 30................	1763.27	58600	-2000	-67
July 31................	1758.68	52400	-6200	-200
Aug. 31................	1755.58	48600	-3800	-123
Sept. 30................	1748.20	40600	-8000	-267
WTR YR 1978	-	-	-6000	-16

03558500 **BLUE RIDGE LAKE.**--Lat 34°52'52", long 84°16'49", Fannin County, Hydrologic Unit 06020003, 400 ft (122 m) upstream from Blue Ridge Dam on Toccoa River, 2.5 mi (4.0 km) northeast of Blue Ridge, and at mile 53.0 (85.3 km). DRAINAGE AREA, 232 mi^2 (601 km^2). PERIOD OF RECORD, December 1930 to current year (prior to Aug. 16, 1939, only midnight readings available). GAGE, water-stage recorder. Datum of gage is at sea level, Tennessee Electric Power Co. datum; to convert to datum of 1929, subtract 0.18 ft (0.055 m) from elevations given herein.

Lake is formed by earth dam. Spillway equipped with five taintor gates 15 ft (4.57 m) high by 22 ft (6.71 m) wide. Dam completed and storage began Dec. 6, 1930. Total capacity at elevation 1,691.00 ft (515.42 m) (top of gates) is 98,800 ft^3/s-days (241.8 hm^3), of which 92,800 ft^3/s-days (227.1 hm^3) is controlled storage above 1,590.00 ft (484.63 m), minimum pool. Lake is used for power and recreation. Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD: Maximum contents recorded, 102,100 ft^3/s-days (249.8 hm^3) Feb. 11, 1946, elevation, 1,691.54 ft (515.581 m); minimum (after first filling), 6,500 ft^3/s-days (15.91 hm^3) Jan. 16, 1956, elevation, 1,587.75 ft (483.95 m).

EXTREMES FOR CURRENT YEAR: Maximum contents, 92,500 ft^3/s-days (226.3 hm^3) June 15, elevation, 1,686.95 ft (514.182 m); minimum, 53,200 ft^3/s-days (130.2 hm^3) Jan. 7, elevation, 1,659.03 ft (505.672 m).

MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 1977 TO SEPTEMBER 1978

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Change in contents (equivalent in cubic feet per second)
Sept. 30................	1668.59	65000	-	-
Oct. 31................	1662.20	56900	-8100	-261
Nov. 30................	1665.58	61100	+4200	+140
Dec. 31................	1660.73	55200	-5900	-190
CAL YR 1977	-	-	+11100	+30
Jan. 31................	1670.83	68000	+12800	+413
Feb. 28................	1668.24	64500	-3500	-125
Mar. 31................	1673.91	72200	+7700	+248
Apr. 30................	1681.02	82800	+10600	+363
May 31................	1685.85	90700	+7900	+255
June 30................	1684.33	88200	-2500	-83
July 31................	1678.40	77800	-9400	-303
Aug. 31................	1675.27	74200	-4600	-148
Sept. 30................	1664.07	59200	-15000	-500
WTR YR 1978	-	-	-5800	-16

Crest-stage partial-record stations

The following table contains annual maximum discharges for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage partial-record stations

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Savannah River basin					
02191280	Mill Shoal Creek near Royston, Ga.	Lat 34°16'13", long 83°06'08", Hart County, Hydrologic Unit 03060103, at culvert on State Highway 17, 1.2 miles southeast of Royston.	0.32	1964-78	11-5-77	4.81	159
*02191300	Broad River above Carlton, Ga. h/	Lat 34°04'24", long 83°00'12", Madison-Elbert County line, Hydrologuc Unit 03060104, at State Highway 72, 2.8 miles northeast of Carlton.	760	1898-1912, 1913-18g, 1920-78g	11-6-77	27.25	27,500
02191930	Buffalo Creek near Lexington, Ga.	Lat 33°46'40", long 83°03'01", Oglethorpe County, Hydrologic Unit 03060104, at culvert on State Highway 22, 7 miles southeast of Lexington.	5.80	1964-78	1-25-78	6.18	674
02192300	Hog Fork Fishing Creek tributary near Tignall, Ga.	Lat 33°49'05", long 82°45'21", Wilkes County, Hydrologic Unit 03060104, at culvert on State Highway 17, 4.2 miles south of Tignall.	.097	1959-78	5-8-78	8.66	85
02197190	McBean Creek near McBean, Ga.	Lat 33°14'12", long 82°02'38", Richmond-Burke County line, Hydrologic Unit 03060106, at State Highway 21, 5.5 miles west of McBean.	41.4	1963-78	1-26-78	4.41	288
		Ogeechee River basin					
02200930	Ogeechee River tributary near Louisville, Ga.	Lat 32°55'20", long 82°18'49", Jefferson County, Hydrologic Unit 03060201, at culvert on State Highway 17, 8.5 miles southeast of Louisville.	14.2	1965-78	1-26-78	5.13	386
02200950	Ogeechee River near Wadley, Ga.	Lat 32°52'11", long 82°19'11", Jefferson County, Hydrologic Unit 03060201, at bridge on State Highway 78, 4.5 miles east of Wadley.	a990	1970-78	1-26-78	12.93	10,800
02201350	Buckhead Creek near Waynesboro, Ga.	Lat 32°58'21", long 82°07'15", Burke County, Hydrologic Unit 03060201, at State Highway 56, 10 miles southwest of Waynesboro.	a64	1963-78	1-26-78	6.95	1,570
02201800	Richardson Creek near Millen, Ga.	Lat 32°43'23", long 81°58'35", Jenkins County, Hydrologic Unit 03060202, at State Highway 67, 6 miles south of Millen.	a43	1963-78	1-26-78	4.91	998
02202000	Ogeechee River at Scarboro, Ga.	Lat 32°42'38", long 81°52'46", Jenkins County, Hydrologic Unit 03060202, at abandoned highway bridge at Scarboro, and 7.5 miles southeast of Millen.	a1,940	1938-71‡, 1972-78	1-28-78	10.85	17,300
02202900	Fifteen Mile Creek near Metter, Ga.	Lat 32°23'33", long 82°00'55", Candler County, Hydrologic Unit 03060203, at State Highway 46, 2.5 miles east of Metter.	147	1963-78	1-26-78	6.50	2,120
02202910	Ten Mile Creek tributary at Pulaski, Ga.	Lat 32°23'18", long 81°58'17", Candler County, Hydrologic Unit 03060203, at culvert on State Highway 46, 0.8 mile west of Pulaski.	1.14	1965-78	1-25-78	4.12	120

* Also a low-flow partial-record station.
‡ Operated as a continuous-record gaging stations.
a Approximately.
g Maximum gage heights computed from graph based on gage readings.
h Published as near Carlton prior to 1918.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Altamaha River basin					
02203600	South River at East Point, Ga.	Lat 33°40'50", long 84°25'15", Fulton County, Hydrologic Unit 03070103, at culvert on Harland Drive at East Point.	1.49	1964-69‡, 1970-73, 1976-78	11-5-77	10.23	854
02203800	South River at Atlanta, Ga.	Lat 33°40'46", long 84°18'30", DeKalb County, Hydrologic Unit 03070103, at Bouldercrest Drive at Atlanta.	41.5	1951-78	11-5-77	9.41	5,120
02203820	Sugar Creek near Atlanta, Ga.	Lat 33°41'41", long 84°18'15", DeKalb County, Hydrologic Unit 03070103, at culvert on Clifton Church Road near Atlanta.	8.67	1961, 1963-65, 1974-78	10-25-77	7.03	646
02203835	Shoal Creek near Atlanta, Ga.	Lat 33°44'48", long 84°16'50", DeKalb County, Hydrologic Unit 03070103, at culvert on Line Street near Atlanta.	3.43	1974-78	5-8-78	3.73	570
02203845	Shoal Creek tributary near Atlanta, Ga.	Lat 33°43'05", long 84°15'45", DeKalb County, Hydrologic Unit 03070103, at culvert on Glendale Drive near Atlanta.	.84	1974-78	5-8-78	4.88	457
02203850	Shoal Creek at Rainbow Drive, near Atlanta, Ga.	Lat 33°42'36", long 84°15'57", DeKalb County, Hydrologic Unit 03070102, at culvert on Rainbow Drive near Atlanta.	7.50	1974-78	4-4-74 6-10-75 3-16-76 3-21-77 3-11-78	5.52 5.80 5.72 3.82 5.06	1,280 1,340 1,580 1,532 1,160
02203870	Cobbs Creek near Atlanta, Ga.	Lat 33°43'44", long 84°14'17", DeKalb County, Hydrologic Unit 03070103, at culvert on Snapfinger Road near Atlanta.	3.68	1963-66, 1974-78	5-8-78	4.60	590
02203884	Conley Creek near Forest Park, Ga.	Lat 33°38'08", long 84°20'37", Clayton County, Hydrologic Unit 03070103, at culvert on Rock Cut Road near Forest Park.	1.88	1974-78	11-5-77	9.72	1,230
02203900	South River near Atlanta, Ga.	Lat 33°39'58", long 84°13'29", DeKalb County, Hydrologic Unit 03070103, on Flakes Mill Road, 8 miles east of Atlanta city limits.	a99	1951-78	1-25-78	11.66	4,960
02204135	Camp Creek tributary near Stockbridge, Ga.	Lat 33°34'35", long 84°08'50", Henry County, Hydrologic Unit 03070103, at culvert on State Route 55, 5 miles northeast of Stockbridge.	.28	1977-78	- -77 5-1-78	- 5.91	<6 72
02206500	Yellow River near Snellville, Ga.	Lat 33°51'11", long 84°04'45", Gwinnett County, Hydrologic Unit 03070103, on left bank at downstream side of county highway bridge, 3.2 mi west of Snellville.	134	1973-71‡, 1973-78	1-26-78	11.27	3,310
02211300	Towaliga River near Jackson, Ga.	Lat 33°15'50", long 84°04'17", Butte County, Hydrologic Unit 03070103, at bridge on State Highway 16, 6.5 miles west of Jackson.	a105	1961-71‡, 1972-78	1-26-78	13.10	4,070
02215000	Ocmulgee River at Hawkinsville, Ga.	Lat 32°16'50", long 83°27'40", Pulaski County, Hydrologic Unit 03070104, at U.S. Highway 341, at Hawkinsville, and at mile 135.1.	a3,800	1877[g], 1909-78[g]	1-30-78	27.4	37,900
02215245	Folsom Creek tributary near Rochelle, Ga.	Lat 32°00'15", long 83°25'58", Wilcox County, Hydrologic Unit 03070104, at culvert on State Highway 233, 4 miles north of Rochelle.	1.44	1965-78	4-13-78	4.91	259
02217400	Mulberry River tributary near Winder, Ga.	Lat 34°03'53", long 83°39'45", Jackson County, Hydrologic Unit 03070101, at culvert on State Highway 11, 6 miles northeast of Winder.	2.68	1965-78	1-25-78	2.90	386

‡ Operated as a continuous-record gaging station.
a Approximately.
[g] Maximum gage heights computed from graph based on gage readings.

Crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Altamaha River basin--Continued					
02218450	Town Creek near Greensboro, Ga.	Lat 33°38'29", long 83°13'36", Greene County, Hydrologic Unit 03070101, at State Highway 15, 5 miles northwest of Greensboro.	11.9	1964-78	1-25-78	8.12	862
02223349	Big Sandy Creek tributary near Irwinton, Ga.	Lat 32°48'11", long 83°13'37", Wilkinson County, Hydrologic Unit 03070102, at culvert on county road, 1.7 miles southwest of Irwinton.	a0.50	1978	1-25-78	1.90	29
02223360	Big Sandy Creek near Irwinton, Ga.	Lat 32°45'59", long 83°10'05", Wilkinson County, Hydrologic Unit 03070102, at bridge on U.S. Highway 441, 2 miles south of Irwinton.	177	1970-78	1-26-78	5.82	2,690
02224500	Oconee River near Mount Vernon, Ga.	Lat 32°11'28", long 82°38'00", Montgomery-Wheeler County line, Hydrologic Unit 03070102, at U.S. Highway 280, 2 miles west of Mount Vernon, at mile 28.7.	a5,110	1936, 1938-55, 1956-78	2-1-78	20.3	46,500
02225150	Ohoopee River near Wrightsville, Ga.	Lat 32°42'50", long 82°45'20", Johnson County, Hydrologic Unit 03070107, at U.S. Highway 319, 2.5 miles west of Wrightsville.	a55	1963-78	1-26-78	7.88	1,210
02225330	Beaver Creek near Cobbtown, Ga.	Lat 32°16,52", long 82°11'27", Tattnall County, Hydrologic Unit 03070107, at culvert on State Highway 152, 3.2 miles west of Cobbtown.	9.58	1965-78	1-25-78	5.18	428
02225350	Pendleton Creek tributary No. 2 near Soperton, Ga.	Lat 32°25'35", long 82°29'52", Treutlen County, Hydrologic Unit 03070107, at culvert on State Highway 86, 6.5 miles northeast of Soperton.	1.68	1965-78	1-25-78	3.07	222
02225850	Beards Creek near Glennville, Ga.	Lat 31°55'26", long 81°52'58", Tattnall-Long County line, Hydrologic Unit 03070106, at State Highway 144, 3 miles east of Glennville.	74.4	1966-78	1-26-78	5.00	600
02226030	Doctors Creek near Ludowici, Ga.	Lat 31°44'07", long 81°42'08", Long County, Hydrologic Unit 03070106, at State Highway 38, 3 miles northeast of Ludowici.	a33	1966-78	12-3-77	6.62	394
		Satilla River basin					
02226150	Satilla River tributary near Willacoochee, Ga.	Lat 31°27'24", long 83°03'02", Coffee County, Hydrologic Unit 03070201, at culvert on State Highway 149, 8.5 miles north of Willacoochee.	6.38	1965-78	1-25-78	3.00	89
02226580	Big Creek near Hoboken, Ga.	Lat 31°10'28", long 82°11'17", Brantley County, Hydrologic Unit 03070201, at State Highway 50, 2.5 miles west of Hoboken.	a49	1966-78	12-4-77	8.10	(†)
02227000	Hurricane Creek near Alma, Ga.	Lat 31°34'00", long 82°27'50", Bacon County, Hydrologic Unit 03070201, at bridge on U.S. Highway 1, 1.5 miles north of Alma.	150	1952-71‡, 1972-78	1-27-78	6.83	1,590
02227290	Alabaha River near Blackshear, Ga.	Lat 31°33'44", long 82°28'03", Pierce County, Hydrologic Unit 03070201, at bridge on State Highways 15 and 121, 3 miles north of Blackshear.	a411	1970-78	1-27-78	12.26	3,270
02227422	Crooked Creek tributary near Bristol, Ga.	Lat 31°26'24", long 82°15'03", Pierce County, Hydrologic Unit 03070202, on county road, 2 miles west of Bristol.	.42	1976-78	8-3-76 1-7-77 3-19-78	2.50 1.58 1.40	58 31 26

† Discharge not determined.
‡ Operated as a continuous-record gaging station.
a Approximately.

Crest-stage partial-record stations—Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Satilla River basin--Continued					
02227990	Satilla River tributary No. 2 at Atkinson, Ga.	Lat 31°13'34", long 81°50'52", Brantley County, Hydrologic Unit 03070201, on county road, 0.3 miles north of Atkinson.	0.38	1977-78	11-28-77 8-2-78	1.97 2.63	95 173
02228050	Buffalo Creek at Hickox, Ga.	Lat 31°09'22", long 81°59'29", Brantley County, Hydrologic Unit 03070201, at State Highway 23, at Hickox.	a59	1966-78	- -78	-	<700
		Suwannee River basin					
02314700	Suwannoochee Creek near Thelma, Ga.	Lat 30°49'18", long 82°50'28", Clinch-Echols County line, Hydrologic Unit 03110201, at State Highway 187, 1.2 miles west of Thelma.	232	1929, 1963-78	1-28-78	7.61	1,710
02316390	Alapaha River at Lakeland, Ga.	Lat 31°02'46", long 83°02'37", Lanier County, Hydrologic Unit 03110202, at bridge on U.S. Highways 129 and 221 at Lakeland.	1,080	1970-78	2-7-78	18.23	6,660
02317710	Withlacoochee River tributary near Nashville, Ga.	Lat 31°11'54", long 83°17'17", Berrien County, Hydrologic Unit 03110202, at culvert on State Highway 76, 2.2 miles southwest of Nashville.	.86	1960-78	1-19-78	2.49	56
02317734	New River near Nashville, Ga.	Lat 31°10'37", long 83°19'20", Berrien-Cook County line, Hydrologic Unit 03110203, at bridge on State Highway 76, 5 miles west of Nashville.	146	1970-78	3-13-78	8.87	1,260
02317775	Daniels Creek near Ashburn, Ga.	Lat 31°40'40", long 83°45'06", Turner County, Hydrologic Unit 03110204, at culvert on State Highway 32, 6.2 miles west of Ashburn.	1.11	1965-78	1-25-78	2.72	148
02317780	Lime Sink Creek near Sycamore, Ga.	Lat 31°36'20", long 83°40'31", Turner County, Hydrologic Unit 03110204, at culvert on secondary road 1181, 4.5 miles southwest of Sycamore.	.68	1965-78	1-25-78	2.35	48
02317810	Little River tributary No. 2 near Tifton, Ga.	Lat 31°25'30", long 83°34'23", Tift County, Hydrologic Unit 03110204, at culvert on secondary road 546, 4 miles southwest of Tifton.	.47	1965-78	3-14-78	2.39	62
02317870	Warrior Creek near Sumner, Ga.	Lat 31°21'45", long 83°46'11", Worth County, Hydrologic Unit 03110204, at county road, 10.8 miles south of Sumner.	a109	1966-78	1-29-78	14.52	4,430
02318600	Okapilco Creek near Berlin, Ga.	Lat 31°02'48", long 83°37'02", Colquitt County, Hydrologic Unit 03110203, on county road, 1 mile south of Berlin.	101	1963-78	5-6-78	9.83	1,550
		Aucilla River basin					
02326200	Aucilla River near Boston, Ga.	Lat 30°46'44", long 83°48'12", Thomas County, Hydrologic Unit 03110103, at bridge on State Highway 133, 1.2 miles south of Boston.	a81	1962-78	1-27-78	5.71	687
		Ochlockonee River basin					
02327350	Ochlockonee River tributary near Coolidge, Ga.	Lat 31°01'33", long 83°57'32", Thomas County, Hydrologic Unit 03120002, at culvert on State Highway 202, 5.5 miles west of Coolidge.	1.81	1965-78	5-30-78	1.86	125
02327550	Barnetts Creek near Meigs, Ga.	Lat 31°01'32", long 84°08'14", Grady County, Hydrologic Unit 03120002, at State Highway 111, 4.2 miles southwest of Meigs.	15.0	1965-75, 1978	5-8-78	6.45	2,240

a Approximately.

Crest-stage partial-record stations--Continued

					Annual maximum		
Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Ochlockonee River basin--Continued					
02327810	Ochlockonee River near Cairo, Ga.	Lat 30°47'30", long 84°09'16", Grady County, Hydrologic Unit 03120002, at bridge on State Highway 93,, 5 miles south of Cairo.	747	1970-78	5-9-78	21.59	5,820
02327860	Popple Branch near Whigham, Ga.	Lat 30°55'36", long 84°15'18", Grady County, Hydrologic Unit 03120002, at culvert on State Highway 179, 3.2 miles north of Whigham.	1.71	1977-78	8-22-78	2.37	112
02328000	Tired Creek near Cairo, Ga.	Lat 30°51'54", long 84°15'46", Grady County, Hydrologic Unit 03120002, 140 ft upstream from highway bridge, and 3 miles west of Cairo.	[a]60	1944-71, 1972-78	3-10-78	7.45	1,650
		Apalachicola River basin					
02336080	North Fork Peachtree Creek near Chamblee, Ga.	Lat 33°51'43", long 84°17'13", DeKalb County, Hydrologic Unit 03130001, at culvert on Shallowford Road near Chamblee.	19.1	1974-78	1-25-78	10.37	1,760
02336090	North Fork Peachtree Creek tributary near Chamblee, Ga.	Lat 33°50'53", long 84°17'57", DeKalb County, Hydrologic Unit 03130001, at culvert on Meadowcliff Drive, near Chamblee.	.32	1974-78	1-25-78	5.45	114
02336102	North Fork Peachtree Creek tributary near Atlanta, Ga.	Lat 33°51'20", long 84°19'19", DeKalb County, Hydrologic Unit 03130001, at culvert on Drew Valley Road, near Atlanta.	2.19	1974-78	1-25-78	5.81	600
02336150	South Fork Peachtree Creek at Clarkston, Ga.	Lat 33°48'51", long 84°14'38", DeKalb County, Hydrologic Unit 03130001, at culvert on Montreal Road, at Clarkston.	5.29	1961, 1963-64, 1974-78	5-8-78	6.43	818
02336180	South Fork Peachtree Creek near Decatur, Ga.	Lat 33°48'20", long 84°17'52", DeKalb County, Hydrologic Unit 03130001, at bridge on Willivee Drive, near Decatur.	11.0	1961, 1963-64, 1974-78	5-8-78	8.89	708
02336200	South Fork Peachtree Creek tributary at Decatur, Ga.	Lat 33°47'21", long 84°17'50", DeKalb County, Hydrologic Unit 03130001, at culvert on Scott Boulevard, at Decatur.	.98	1974-78	1-26-74 6-19-75 3-16-76 9-17-77 7-27-78	5.37 6.48 5.61 4.11 6.14	350 517 386 245 466
02336238	South Fork Peachtree Creek tributary near Atlanta, Ga.	Lat 33°47'11", long 84°20'29", DeKalb County, Hydrologic Unit 03130001, at culvert on East Rock Springs Road, near Atlanta.	.90	1974-78	5-8-78	5.21	753
02336325	Nancy Creek tributary near Chamblee, Ga.	Lat 33°54'22", long 84°18'21", DeKalb County, Hydrologic Unit 03130001, at culvert on Plantation Lane, near Chamblee.	1.35	1974-78	1-25-78	4,73	451
02336690	South Utoy Creek tributary No. 2 (formerly published as South Utoy Creek) at East Point, Ga.	Lat 33°42'09", long 84°26'57", Fulton County, Hydrologic Unit 03130002, at at culvert on Fort Valley Drive, at East Point.	.52	1974-78	11-5-77	6.09	341
02336697	South Utoy Creek tributary No. 1 (formerly published as South Utoy Creek) at East Point, Ga.	Lat 33°41'51", long 84°27'33", Fulton County, Hydrologic Unit 03130002, at at culvert on Woodberry Avenue, at East Point.	.21	1974-78	11-5-77	3.64	93
02336700	South Utoy Creek tributary at East Point, Ga.	Lat 33°41'25", long 84°28'05", Fulton County, Hydrologic Unit 03130002, at culvert on Headland Drive, at East Point.	.75	1964-69, 1970-78	11-5-77	5.21	369
02336705	South Utoy Creek at Atlanta, Ga.	Lat 33°42'57", long 84°28'41", Fulton County, Hydrologic Unit 03130002, at culvert on Adams Drive, at Atlanta.	8.80	1974-78	11-5-77	8.36	3,060

[a] Approximately.

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi²)	Period of record	Annual maximum		
					Date	Gage height (feet)	Dis-charge (ft³/s)
		Apalachicola River basin--Continued					
02337081	Camp Creek at College Park, Ga.	Lat 33 39'39", long 84 27'44", Fulton County, Hydrologic Unit 03130002, at culvert on Park Terrace, at College Park.	0.88	1974-78	11-5-77	7.01	461
02337448	Hurricane Creek tributary near Fairplay, Ga.	Lat 33°35'03", long 84°50'54", Douglas County, Hydrologic Unit 03130002, at culvert on State Highway 5, 8 miles east of Fairplay.	.33	1977-78	11-5-77	9.46	292
02341544	Mill Branch at Columbus, Ga.	Lat 32°28'19", long 84°53'58", Muscogee County, Hydrologic Unit 03130003, at culvert on Chalbena Road, at Columbus.	1.58	1977-78	7-28-77 6-3-78	5.31 7.10	569 686
02341546	Bull Creek tributary at Columbus, Ga.	Lat 32°28'38", long 84°55'36", Muscogee County, Hydrologic Unit 03130003, at culvert on Woodland Drive, at Columbus.	.26	1977-78	8-3-77 6-3-78	5.29 4.47	134 82
02341548	Lindsey Creek tributary at Columbus, Ga.	Lat 32°31'33", long 84°56'21", Muscogee County, Hydrologic Unit 03130003, at culvert on Canberra Avenue, at Columbus.	1.42	1977-78	8-3-77 8-9-78	9.13 4.95	(†) 337
02341600	Juniper Creek near Geneva, Ga.	Lat 32°31'41", long 84°34'41", Talbot-Marion County line, Hydrologic Unit 03130003, at State Highway 41, 1.8 miles south of Geneva.	47.4	1963-78	1-27-78	8.22	1,370
02343219	Bluff Springs Branch near Lumpkin, Ga.	Lat 32°01'53", long 84°53'18", Stewart County, Hydrologic Unit 03130003, at culvert on State Highway 27, 5.8 miles southwest of Lumpkin.	2.98	1977-78	7-31-78	4.27	489
02343267	Temple Creek near Blakely, Ga.	Lat 31°26'34", long 84°59'00", Early County, Hydrologic Unit 03130004, at culvert on State Route 59, 5.2 miles north of Blakely.	2.78	1978	1-26-78	2.20	(†)
02346193	Scott Creek near Talbotton, Ga.	Lat 32°39'48", long 84°36'06", Talbot County, Hydrologic Unit 03130005, at culvert on county road, 3.7 miles west of Talbotton.	3.36	1969-78	3-22-77 1-25-78	c5.36 5.87	c426 531
02346210	Kimbrough Creek near Talbotton, Ga.	Lat 32°41'19", long 84°30'48", Talbot County, Hydrologic Unit 03130005, at culvert on State Highway 22, 1.8 miles southeast of Talbotton.	6.62	1969-78	1-25-78	4.70	(†)
02346217	Celeoth Creek near Manchester, Ga.	Lat 32°49'20", long 84°36'16", Talbot County, Hydrologic Unit 03130005, at culvert on county road, 2.2 miles south of Manchester.	2.82	1969-78	1-25-78	3.23	570
*02348300	Patsiliga Creek near Reynolds, Ga.	Lat 32°34'20", long 84°05'27", Taylor County, Hydrologic Unit 03130005, at State Highway 128, 1 mile north of Reynolds.	139	1963-78	1-26-78	7.87	2,000
02349330	Buck Creek tributary near Tazewell, Ga.	Lat 32°20'50", long 84°22'26", Schley County, Hydrologic Unit 03130006, at culvert on State Highway 240, 4.3 miles east of Tazewell.	a0.40	1977-78	8-12-78	3.09	53
02349695	Horsehead Creek near Montezuma, Ga.	Lat 32°21'28", long 83°56'11", Macon County, Hydrologic Unit 03130006, at culvert on State Highway 224, 8.7 miles northeast of Montezuma.	.72	1977-78	1-26-78	2.98	85
02350685	Choctahatchee Creek tributary near Plains, Ga.	Lat 32°02'02", long 84°25'59", Sumter County, Hydrologic Unit 03130007, at culvert on U.S. Highway 280, 2.4 miles west of Plains.	.32	1977-78	3-21-77 4-12-78	1.83 2.10	(†) (†)

* Also a low-flow partial record station.
† Discharge not determined.
a Approximately.
c Revised

Crest-stage partial-record stations--Continued

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (feet)	Discharge (ft^3/s)
		Apalachicola River basin--Continued					
02351500	Muckalee Creek near Americus, Ga.	Lat 32°04'59", long 84°15'29", Sumter County, Hydrologic Unit 03130007, at State Highway 30, 1 mile west of Americus.	140	1963-78	1-27-78	10.43	4,700
02353100	Ichawaynochaway Creek near Dawson, Ga.	Lat 31°46'18", long 84°33'45", Terrell County, Hydrologic Unit 03130009, at State Highway 50, 7 miles west of Dawson.	118	1963-78	1-27-78	9.74	3,460
02354500	Chickasawhatchee Creek at Elmodel, Ga.	Lat 31°21'09", long 84°29'10', Baker County, Hydrologic Unit 03130009, at bridge on State Highway 37 at Elmodel, and 2 miles upstream from mouth.	a320	1940-49‡, 1952-65, 1970-78	3-9-78	12.38	4,020
02356100	Spring Creek near Arlington, Ga.	Lat 31°24'47", long 84°46'33", Early County, Hydrologic Unit 03130010, at State Highway 62, 3.5 miles southwest of Arlington.	a49	1951-65, 1970-73, 1975-78	3-15-76 11-30-76 1-26-78	7.22 8.14 9.72	700 1,550 4,000
		Mobile River basin					
02381300	Fir Creek near Ellijay, Ga.	Lat 34°41'06", long 84°37'23", Gilmer County, Hydrologic Unit 03150102, at culvert on State Highway 282, 8 miles west of Ellijay.	1.35	1966-78	8-4-78	2.20	69
02384500	Conasauga River near Eton, Ga.	Lat 34°49'40", long 84°51'03", Murray-Whitfield County line, Hydrologic Unit 03150101, at State Highway 286, 5 miles west of Eton.	253	1954-58, 1963-78	1-26-78	10.12	5,170
02384600	Mill Creek tributary near Eton, Ga.	Lat 34°49'38", long 84°48'58", Murray County, Hydrologic Unit 03150101, at culvert on State Highway 286, 3 miles west of Eton.	4.28	1965-78	11-5-77	5.49	380
02387300	Dead Mans Branch near Resaca, Ga.	Lat 34°35'44", long 84°52'11", Gordon County, Hydrologic Unit 03150101, at culvert on State Highway 225, 4.2 miles east of Resaca.	.17	1965-78	5-8-78	5.00	121
02388200	Storey Mill Creek (prior to 1974 published as Moss Creek tributary) near Summerville, Ga.	Lat 34°25'39", long 85°16'03", Chattooga County, Hydrologic Unit 03150103, at culvert on county road, 6 miles southeast of Summerville.	6.02	1966-78	11-5-77	5.83	609
02411735	McClendon Creek tributary near Dallas, Ga.	Lat 33°50'59", long 84°57'20", Paulding County, Hydrologic Unit 03150108, at culvert on State Highway 101, 9.3 miles southwest of Dallas.	.88	1978	11-5-77	5.27	416
02411902	Mann Creek tributary near Tallapooea, Ga.	Lat 33°51'16", long 85°17'28", Haralson County, Hydrologic Unit 03150108, at culvert on State Highway 100, 7 miles north of Tallapoosa.	.12	1978	5-8-78	3.85	56

‡ Operated as a continuous-record gaging station.
a Approximately.

Peak discharge at miscellaneous sites

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (feet)	Discharge (ft^3/s)
		Savannah River basin					
02191890	Brooks Creek near Lexington, Ga.	Lat 33°50'30", long 83°05'22", Oglethorpe County, Hydrologic Unit 03060104, at State Highway 22, 2.2 miles south of Lexington.	12.3	1964-75††, 1978	11-5-77	11.2	d1,880
02191910	Trouble Creek at Lexington, Ga.	Lat 33°52'24", long 83°06'00", Oglethorpe County, Hydrologic Unit 03060104, at culvert on State Highway 77, 0.6 miles northeast of Lexington.	2.70	1959-75††, 1978	11-5-77	8.02	d352
02191960	Macks Creek (formerly published as Macks Creek tributary) near Lexington, Ga.	Lat 33°55'24", long 82°58'30", Oglethorpe County, Hydrologic Unit 03060104, at culvert on State Highway 77, 8 miles northeast of Lexington.	3.45	1959-75††, 1978	11-5-77	13.16	d1,370
		Altamaha River basin					
02213470	Tobesofkee Creek above Macon, Ga.	Lat 32°51'15", long 83°50'22", Bibb County Hydrologic Unit 03070103, 800 ft upstream from bridge on State Highway 74, 8.0 miles west of Macon.	156	1968-71‡, 1972-77††, 1978	1-25-78	12.76	d6,740
02214000	Echeconnee Creek near Macon, Ga.	Lat 32°45'54", long 83°50'22", Bibb-Crawford County line, Hydrologic Unit 03070103, at county road 13 miles southwest of Macon.	147	1938-43‡, 1951-77††, 1978	1-26-78	12.65	d7,960
02216000	Little Ocmulgee River at Towns, Ga.	Lat 32°00'28", long 82°45'10", Telfair-Wheeler County line, Hydrologic Unit 03070105, at State Highway 134, at Towns.	329	1925, 1929, 1938-46‡, 1948-77††, 1978	1-27-78	13.85	d3,100
02227200	Little Hurricane Creek below Alma, Ga.	Lat 31°25'25", long 82°25'59", Bacon County, Hydrologic Unit 03070201, at State Highway 4, 8.5 miles south of Alma.	111	1948-77††, 1978	1-27-78	6.39	d1,210
02227400	Big Satilla Creek near Alma, Ga.	Lat 31°39'24", long 82°25'55", Bacon-Appling County line, Hydrologic Unit 03070202, at State Highway 4, 8.2 miles north of Alma.	112	1948-77††, 1978	1-27-78	5.96	d1,390
02227430	Little Satilla Creek at Odum, Ga.	Lat 31°40'00", long 82°02'23", Wayne County, Hydrologic Unit 03070202, at State Highway 27 at Odum, 10 miles northwest of Jesup.	a49	1949-77††, 1978	1-26-78	5.82	d750
		Suwannee River basin					
02317900	Ty Ty Creek at Ty Ty, Ga.	Lat 31°28'22", long 83°39'47", Tift-Worth County line, Hydrologic Unit 03110204, at U.S. Highway 82, 1 mile west of Ty Ty.	a47	1948, 1951-77††, 1978	1-27-78	6.56	d1,290
02317980	Little River near Sparks, Ga.	Lat 31°11'34", long 83°31'22", Cook-Colquitt County line, Hydrologic Unit 03110204, at bridge on county highway 5.5 miles west of Sparks.	555	1948, 1961-77††, 1978	1-29-78	12.08	d7,400
		Apalachicola River basin					
02343200	Pataula Creek near Lumpkin, Ga.	Lat 31°56'03", long 84°48'12", Stewart County, Hydrologic Unit 03130003, at bridge on U.S. Highway 27, 8 miles south of Lumpkin.	a70	1950-58††, 1959-71‡, 1972-77††, 1978	1-26-78	7.26	d3,900
02343225	Pataula Creek near Georgetown, Ga.	Lat 31°49'06", long 84°57'27", Quitman County, Hydrologic Unit 03130003, at bridge on U.S. Highway 82 (State Highway 50), 11 miles east of Georgetown.	295	1951-77††, 1978	1-28-78	7.19	d8,000
02350600	Kinchafoonee Creek at Preston, Ga.	Lat 32°03'09", long 84°32'54", Webster County, Hydrologic Unit 03130007, at bridge on State Highway 41, 1 mile southwest of Preston.	197	1952-77‡, 1978	3-30-70 1-26-78	8.96 9.70	c6,000 d8,500
02351800	Muckaloochee Creek at Smithville, Ga.	Lat 31°54'19", long 84°14'44", Lee County, Hydrologic Unit 03130007, at State Highway 118, at Smithville.	a47	1943, 1948, 1950-77††, 1978	1-27-78	5.64	d1,570

‡ Operated as a continuous-record gaging station.
†† Operated as a crest-stage partial-record station.
a Approximately.
c Revised.
d Annual maximum.

APPENDIX

Following are two listings of the new versus old terminology for each of the 143 water-quality parameters affected by the terminology change explained on page XI. The first listing orders the changes numerically according to the laboratory parameter code and the second listing orders the changes alphabetically according to the parameter name.

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         NUMERIC LISTING

PARM.    NEW TERMINOLOGY -- FIRST LINE
CODE     OLD TERMINOLOGY -- SECOND LINE
----- ------------------------------------

00623 NITROGEN, AMMONIA PLUS ORGANIC, DISSOLVED (MG/L AS N)
00623 NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)

00624 NITROGEN, AMMONIA PLUS ORGANIC, SUSPENDED TOTAL (MG/L AS N)
00624 NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)

00625 NITROGEN, AMMONIA PLUS ORGANIC, TOTAL (MG/L AS N)
00625 NITROGEN, KJELDAHL, TOTAL (MG/L AS N)

00626 NITROGEN, AMMONIA PLUS ORGANIC,
        TOTAL IN BOTTOM MATERIAL, DRY WT (MG/KG AS N)
00626 NITROGEN, KJELDAHL, TOTAL IN BOTTOM MATERIAL, DRY WT (MG/KG AS N)

00683 CARBON, ORGANIC, SUSPENDED TOTAL (MG/L AS C)
00683 CARBON, ORGANIC, SUSPENDED (MG/L AS C)

00688 CARBON, INORGANIC, SUSPENDED TOTAL (MG/L AS C)
00688 CARBON, INORGANIC, SUSPENDED (MG/L AS C)

00689 CARBON, ORGANIC, SUSPENDED TOTAL (MG/L AS C)
00689 CARBON, ORGANIC, SUSPENDED (MG/L AS C)

00694 CARBON, INORGANIC PLUS ORGANIC, SUSPENDED TOTAL (MG/L AS C)
00694 CARBON, INORGANIC PLUS ORGANIC, SUSPENDED (MG/L AS C)

00916 CALCIUM, TOTAL RECOVERABLE (MG/L AS CA)
00916 CALCIUM, TOTAL (MG/L AS CA)

00926 MAGNESIUM, SUSPENDED RECOVERABLE (MG/L AS MG)
00926 MAGNESIUM, SUSPENDED (MG/L AS MG)

00927 MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG)
00927 MAGNESIUM, TOTAL (MG/L AS MG)

01001 ARSENIC, SUSPENDED TOTAL (UG/L AS AS)
01001 ARSENIC, SUSPENDED (UG/L AS AS)

01006 BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)
01006 BARIUM, SUSPENDED (UG/L AS BA)

01007 BARIUM, TOTAL RECOVERABLE (UG/L AS BA)
01007 BARIUM, TOTAL (UG/L AS BA)

01008 BARIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS BA)
01008 BARIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS BA)

01011 BERYLLIUM, SUSPENDED RECOVERABLE (UG/L AS BE)
01011 BERYLLIUM, SUSPENDED (UG/L AS BE)

01012 BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)
01012 BERYLLIUM, TOTAL (UG/L AS BE)

01013 BERYLLIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS BE)
01013 BERYLLIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS BE)
```

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PARM.      NEW TERMINOLOGY -- FIRST LINE
CODE       OLD TERMINOLOGY -- SECOND LINE
----- ------------------------------------

01016  BISMUTH, SUSPENDED TOTAL (UG/L AS BI)
01016  BISMUTH, SUSPENDED (UG/L AS BI)

01021  BORON, SUSPENDED RECOVERABLE (UG/L AS B)
01021  BORON, SUSPENDED (UG/L AS B)

01022  BORON, TOTAL RECOVERABLE (UG/L AS B)
01022  BORON, TOTAL (UG/L AS B)

01023  BORON, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS B)
01023  BORON, TOTAL IN BOTTOM MATERIAL (UG/G AS B)

01026  CADMIUM, SUSPENDED RECOVERABLE (UG/L AS CD)
01026  CADMIUM, SUSPENDED (UG/L AS CD)

01027  CADMIUM, TOTAL RECOVERABLE (UG/L AS CD)
01027  CADMIUM, TOTAL (UG/L AS CD)

01028  CADMIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CD)
01028  CADMIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS CD)

01029  CHROMIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CR)
01029  CHROMIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS CR)

01031  CHROMIUM, SUSPENDED RECOVERABLE (UG/L AS CR)
01031  CHROMIUM, SUSPENDED (UG/L AS CR)

01034  CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
01034  CHROMIUM, TOTAL (UG/L AS CR)

01036  COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
01036  COBALT, SUSPENDED (UG/L AS CO)

01037  COBALT, TOTAL RECOVERABLE (UG/L AS CO)
01037  COBALT, TOTAL (UG/L AS CO)

01038  COBALT, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CO)
01038  COBALT, TOTAL IN BOTTOM MATERIAL (UG/G AS CO)

01041  COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)
01041  COPPER, SUSPENDED (UG/L AS CU)

01042  COPPER, TOTAL RECOVERABLE (UG/L AS CU)
01042  COPPER, TOTAL (UG/L AS CU)

01043  COPPER, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CU)
01043  COPPER, TOTAL IN BOTTOM MATERIAL (UG/G AS CU)

01044  IRON, SUSPENDED RECOVERABLE (UG/L AS FE)
01044  IRON, SUSPENDED (UG/L AS FE)

01045  IRON, TOTAL RECOVERABLE (UG/L AS FE)
01045  IRON, TOTAL (UG/L AS FE)

01050  LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)
01050  LEAD, SUSPENDED (UG/L AS PB)
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PARM.      NEW TERMINOLOGY -- FIRST LINE
CODE       OLD TERMINOLOGY -- SECOND LINE
----  ------------------------------------------

01051  LEAD, TOTAL RECOVERABLE (UG/L AS PB)
01051  LEAD, TOTAL (UG/L AS PB)

01052  LEAD, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS PB)
01052  LEAD, TOTAL IN BOTTOM MATERIAL (UG/G AS PB)

01053  MANGANESE, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS MN)
01053  MANGANESE, TOTAL IN BOTTOM MATERIAL (UG/G AS MN)

01054  MANGANESE, SUSPENDED RECOVERABLE (UG/L AS MN)
01054  MANGANESE, SUSPENDED (UG/L AS MN)

01055  MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)
01055  MANGANESE, TOTAL (UG/L AS MN)

01061  MOLYBDENUM, SUSPENDED RECOVERABLE (UG/L AS MO)
01061  MOLYBDENUM, SUSPENDED (UG/L AS MO)

01062  MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)
01062  MOLYBDENUM, TOTAL (UG/L AS MO)

01063  MOLYBDENUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS MO)
01063  MOLYBDENUM, TOTAL IN BOTTOM MATERIAL (UG/G AS MO)

01066  NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)
01066  NICKEL, SUSPENDED (UG/L AS NI)

01067  NICKEL, TOTAL RECOVERABLE (UG/L AS NI)
01067  NICKEL, TOTAL (UG/L AS NI)

01068  NICKEL, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS NI)
01068  NICKEL, TOTAL IN BOTTOM MATERIAL (UG/G AS NI)

01076  SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)
01076  SILVER, SUSPENDED (UG/L AS AG)

01077  SILVER, TOTAL RECOVERABLE (UG/L AS AG)
01077  SILVER, TOTAL (UG/L AS AG)

01078  SILVER, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS AG)
01078  SILVER, TOTAL IN BOTTOM MATERIAL (UG/G AS AG)

01081  STRONTIUM, SUSPENDED RECOVERABLE (UG/L AS SR)
01081  STRONTIUM, SUSPENDED (UG/L AS SR)

01082  STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR)
01082  STRONTIUM, TOTAL (UG/L AS SR)

01083  STRONTIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS SR)
01083  STRONTIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS SR)

01086  VANADIUM, SUSPENDED TOTAL (UG/L AS V)
01086  VANADIUM, SUSPENDED (UG/L AS V)

01091  ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)
01091  ZINC, SUSPENDED (UG/L AS ZN)
```

PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
01092	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
01092	ZINC, TOTAL (UG/L AS ZN)
01093	ZINC, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS ZN)
01093	ZINC, TOTAL IN BOTTOM MATERIAL (UG/G AS ZN)
01096	ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)
01096	ANTIMONY, SUSPENDED (UG/L AS SB)
01101	TIN, SUSPENDED RECOVERABLE (UG/L AS SN)
01101	TIN, SUSPENDED (UG/L AS SN)
01102	TIN, TOTAL RECOVERABLE (UG/L AS SN)
01102	TIN, TOTAL (UG/L AS SN)
01105	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)
01105	ALUMINUM, TOTAL (UG/L AS AL)
01107	ALUMINUM, SUSPENDED RECOVERABLE (UG/L AS AL)
01107	ALUMINUM, SUSPENDED (UG/L AS AL)
01108	ALUMINUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS AL)
01108	ALUMINUM, TOTAL IN BOTTOM MATERIAL (UG/G AS AL)
01116	CESIUM, SUSPENDED TOTAL (UG/L AS CS)
01116	CESIUM, SUSPENDED (UG/L AS CS)
01121	GALLIUM, SUSPENDED TOTAL (UG/L AS GA)
01121	GALLIUM, SUSPENDED (UG/L AS GA)
01126	GERMANIUM, SUSPENDED TOTAL (UG/L AS GE)
01126	GERMANIUM, SUSPENDED (UG/L AS GE)
01131	LITHIUM, SUSPENDED RECOVERABLE (UG/L AS LI)
01131	LITHIUM, SUSPENDED (UG/L AS LI)
01132	LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)
01132	LITHIUM, TOTAL (UG/L AS LI)
01136	RUBIDIUM, SUSPENDED TOTAL (UG/L AS RB)
01136	RUBIDIUM, SUSPENDED (UG/L AS RB)
01146	SELENIUM, SUSPENDED TOTAL (UG/L AS SE)
01146	SELENIUM, SUSPENDED (UG/L AS SE)
01151	TITANIUM, SUSPENDED TOTAL (UG/L AS TI)
01151	TITANIUM, SUSPENDED (UG/L AS TI)
01161	ZIRCONIUM, SUSPENDED TOTAL (UG/L AS ZR)
01161	ZIRCONIUM, SUSPENDED (UG/L AS ZR)
01170	IRON, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS FE)
01170	IRON, TOTAL IN BOTTOM MATERIAL (UG/G AS FE)
01505	ALPHA, SUSPENDED TOTAL (PCI/L)
01505	ALPHA, SUSPENDED (PCI/L)

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PARM.     NEW TERMINOLOGY -- FIRST LINE
CODE      OLD TERMINOLOGY -- SECOND LINE
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01506  ALPHA, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
01506  ALPHA, SUSPENDED, COUNTING ERROR (PCI/L)

01516  GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL
         (PCI/L AS U NATURAL)
01516  GROSS ALPHA RADIOACTIVITY, SUSPENDED
         (PCI/L AS U NATURAL)

01517  GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL
         (PCI/G AS U NATURAL)
01517  GROSS ALPHA RADIOACTIVITY, SUSPENDED
         (PCI/G AS U NATURAL)

01518  GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL
         (UG/G AS U NATURAL)
01518  GROSS ALPHA RADIOACTIVITY, SUSPENDED
         (UG/G AS U NATURAL)

03505  BETA, SUSPENDED TOTAL (PCI/L)
03505  BETA, SUSPENDED (PCI/L)

03506  BETA, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
03506  BETA, SUSPENDED, COUNTING ERROR (PCI/L)

03516  GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL
         (PCI/L AS CS-137)
03516  GROSS BETA RADIOACTIVITY, SUSPENDED
         (PCI/L AS CS-137)

03517  GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL
         (PCI/G AS SR/YT-90)
03517  GROSS BETA RADIOACTIVITY, SUSPENDED
         (PCI/G AS SR/YT-90)

03518  GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL
         (PCI/G AS CS-137)
03518  GROSS BETA RADIOACTIVITY, SUSPENDED
         (PCI/G AS CS-137)

07010  TRITIUM, SUSPENDED TOTAL (PCI/L)
07010  TRITIUM, SUSPENDED (PCI/L)

07011  TRITIUM, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07011  TRITIUM, SUSPENDED, COUNTING ERROR (PCI/L)

07014  TRITIUM, SUSPENDED TOTAL, COUNTING ERROR (TRITIUM UNITS)
07014  TRITIUM, SUSPENDED, COUNTING ERROR (TRITIUM UNITS)

07016  TRITIUM, SUSPENDED TOTAL (TRITIUM UNITS)
07016  TRITIUM, SUSPENDED (TRITIUM UNITS)

07052  CALCIUM 45, SUSPENDED TOTAL (PCI/L)
07052  CALCIUM 45, SUSPENDED (PCI/L)

07053  CALCIUM 45, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07053  CALCIUM 45, SUSPENDED, COUNTING ERROR (PCI/L)
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PARM.      NEW TERMINOLOGY -- FIRST LINE
CODE       OLD TERMINOLOGY -- SECOND LINE
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07062  IRON 59, SUSPENDED TOTAL (PCI/L)
07062  IRON 59, SUSPENDED (PCI/L)

07063  IRON 59, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07063  IRON 59, SUSPENDED, COUNTING ERROR (PCI/L)

07082  RHODAMINE WT, SUSPENDED TOTAL (UG/L)
07082  RHODAMINE WT, SUSPENDED (UG/L)

07102  SELENIUM 75, SUSPENDED TOTAL (PCI/L)
07102  SELENIUM 75, SUSPENDED (PCI/L)

07103  SELENIUM 75, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07103  SELENIUM 75, SUSPENDED, COUNTING ERROR (PCI/L)

07122  SILVER 110, SUSPENDED TOTAL (PCI/L)
07122  SILVER 110, SUSPENDED (PCI/L)

07123  SILVER 110, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07123  SILVER 110, SUSPENDED, COUNTING ERROR (PCI/L)

07142  SULFUR 35, SUSPENDED TOTAL (PCI/L)
07142  SULFUR 35, SUSPENDED (PCI/L)

07143  SULFUR 35, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07143  SULFUR 35, SUSPENDED, COUNTING ERROR (PCI/L)

09505  RADIUM 226, SUSPENDED TOTAL (PCI/L)
09505  RADIUM 226, SUSPENDED (PCI/L)

13505  STRONTIUM 90, SUSPENDED TOTAL (PCI/L)
13505  STRONTIUM 90, SUSPENDED (PCI/L)

13506  STRONTIUM 90, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
13506  STRONTIUM 90, SUSPENDED, COUNTING ERROR (PCI/L)

22705  URANIUM, NATURAL, SUSPENDED TOTAL (UG/L AS U NATURAL)
22705  URANIUM, NATURAL, SUSPENDED (UG/L AS U NATURAL)

28404  CESIUM 137, SUSPENDED TOTAL (PCI/L)
28404  CESIUM 137, SUSPENDED (PCI/L)

28405  CESIUM 137,SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
28405  CESIUM 137,SUSPENDED, COUNTING ERROR (PCI/L)

28412  CESIUM 134, SUSPENDED TOTAL (PCI/L)
28412  CESIUM 134, SUSPENDED (PCI/L)

28413  CESIUM 134, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
28413  CESIUM 134, SUSPENDED, COUNTING ERROR (PCI/L)

29633  SCANDIUM 46, SUSPENDED TOTAL (PCI/L)
29633  SCANDIUM 46, SUSPENDED (PCI/L)

29634  SCANDIUM 46, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
29634  SCANDIUM 46, SUSPENDED, COUNTING ERROR (PCI/L)
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PARM.      NEW TERMINOLOGY -- FIRST LINE
CODE       OLD TERMINOLOGY -- SECOND LINE
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39332  ALDRIN, SUSPENDED TOTAL (UG/L)
39332  ALDRIN, SUSPENDED (UG/L)

39342  LINDANE, SUSPENDED TOTAL (UG/L)
39342  LINDANE, SUSPENDED (UG/L)

39353  CHLORDANE, SUSPENDED TOTAL (UG/L)
39353  CHLORDANE, SUSPENDED (UG/L)

39362  DDD, SUSPENDED TOTAL (UG/L)
39362  DDD, SUSPENDED (UG/L)

39367  DDE, SUSPENDED TOTAL (UG/L)
39367  DDE, SUSPENDED (UG/L)

39372  DDT, SUSPENDED TOTAL (UG/L)
39372  DDT, SUSPENDED (UG/L)

39382  DIELDRIN, SUSPENDED TOTAL (UG/L)
39382  DIELDRIN, SUSPENDED (UG/L)

39392  ENDRIN, SUSPENDED TOTAL (UG/L)
39392  ENDRIN, SUSPENDED (UG/L)

39402  TOXAPHENE, SUSPENDED TOTAL (UG/L)
39402  TOXAPHENE, SUSPENDED (UG/L)

39412  HEPTACHLOR, SUSPENDED TOTAL (UG/L)
39412  HEPTACHLOR, SUSPENDED (UG/L)

39422  HEPTACHLOR EPOXIDE, SUSPENDED TOTAL (UG/L)
39422  HEPTACHLOR EPOXIDE, SUSPENDED (UG/L)

39432  ISODRIN, SUSPENDED TOTAL (UG/L)
39432  ISODRIN, SUSPENDED (UG/L)

39502  AROCLOR, SUSPENDED TOTAL, 1248 PCB SERIES (UG/L)
39502  AROCLOR, SUSPENDED, 1248 PCB SERIES (UG/L)

39506  AROCLOR, SUSPENDED TOTAL, 1254 PCB SERIES (UG/L)
39506  AROCLOR, SUSPENDED, 1254 PCB SERIES (UG/L)

39510  AROCLOR, SUSPENDED TOTAL, 1260 PCB SERIES (UG/L)
39510  AROCLOR, SUSPENDED, 1260 PCB SERIES (UG/L)

39518  PCB, SUSPENDED TOTAL (UG/L)
39518  PCB, SUSPENDED (UG/L)

39533  MALATHION, SUSPENDED TOTAL (UG/L)
39533  MALATHION, SUSPENDED (UG/L)

39543  PARATHION, SUSPENDED TOTAL (UG/L)
39543  PARATHION, SUSPENDED (UG/L)

39573  DIAZINON, SUSPENDED TOTAL (UG/L)
39573  DIAZINON, SUSPENDED (UG/L)
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PARM.      NEW TERMINOLOGY -- FIRST LINE
CODE       OLD TERMINOLOGY -- SECOND LINE
-----  -----------------------------------------

39603  METHYL PARATHION, SUSPENDED TOTAL (UG/L)
39603  METHYL PARATHION, SUSPENDED (UG/L)

39733  2,4-D, SUSPENDED TOTAL (UG/L)
39733  2,4-D, SUSPENDED (UG/L)

39743  2,4,5-T, SUSPENDED TOTAL (UG/L)
39743  2,4,5-T, SUSPENDED (UG/L)

39757  MIREX, SUSPENDED TOTAL (UG/L)
39757  MIREX, SUSPENDED (UG/L)

39763  SILVEX, SUSPENDED TOTAL (UG/L)
39763  SILVEX, SUSPENDED (UG/L)

70299  SOLIDS, RESIDUE AT 110 DEG. C, SUSPENDED TOTAL (MG/L)
70299  SOLIDS, RESIDUE AT 110 DEG. C, SUSPENDED (MG/L)

71895  MERCURY, SUSPENDED RECOVERABLE (UG/L AS HG)
71895  MERCURY, SUSPENDED (UG/L AS HG)

71900  MERCURY, TOTAL RECOVERABLE (UG/L AS HG)
71900  MERCURY, TOTAL (UG/L AS HG)

71921  MERCURY, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS HG)
71921  MERCURY, TOTAL IN BOTTOM MATERIAL (UG/G AS HG)

80040  GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL
         (UG/L AS U NATURAL)
80040  GROSS ALPHA RADIOACTIVITY, SUSPENDED
         (UG/L AS U NATURAL)

80060  GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL
         (PCI/L AS SR/YT-90)
80060  GROSS BETA RADIOACTIVITY, SUSPENDED
         (PCI/L AS SR/YT-90)
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        ALPHABETIC LISTING

PARM.   NEW TERMINOLOGY -- FIRST LINE
CODE    OLD TERMINOLOGY -- SECOND LINE
----- -----------------------------------

39332 ALDRIN, SUSPENDED TOTAL (UG/L)
39332 ALDRIN, SUSPENDED (UG/L)

01505 ALPHA, SUSPENDED TOTAL (PCI/L)
01505 ALPHA, SUSPENDED (PCI/L)

01506 ALPHA, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
01506 ALPHA, SUSPENDED, COUNTING ERROR (PCI/L)

01105 ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL)
01105 ALUMINUM, TOTAL (UG/L AS AL)

01107 ALUMINUM, SUSPENDED RECOVERABLE (UG/L AS AL)
01107 ALUMINUM, SUSPENDED (UG/L AS AL)

01108 ALUMINUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS AL)
01108 ALUMINUM, TOTAL IN BOTTOM MATERIAL (UG/G AS AL)

01096 ANTIMONY, SUSPENDED TOTAL (UG/L AS SB)
01096 ANTIMONY, SUSPENDED (UG/L AS SB)

39502 AROCLOR, SUSPENDED TOTAL, 1248 PCB SERIES (UG/L)
39502 AROCLOR, SUSPENDED, 1248 PCB SERIES (UG/L)

39506 AROCLOR, SUSPENDED TOTAL, 1254 PCB SERIES (UG/L)
39506 AROCLOR, SUSPENDED, 1254 PCB SERIES (UG/L)

39510 AROCLOR, SUSPENDED TOTAL, 1260 PCB SERIES (UG/L)
39510 AROCLOR, SUSPENDED, 1260 PCB SERIES (UG/L)

01001 ARSENIC, SUSPENDED TOTAL (UG/L AS AS)
01001 ARSENIC, SUSPENDED (UG/L AS AS)

01006 BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)
01006 BARIUM, SUSPENDED (UG/L AS BA)

01007 BARIUM, TOTAL RECOVERABLE (UG/L AS BA)
01007 BARIUM, TOTAL (UG/L AS BA)

01008 BARIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS BA)
01008 BARIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS BA)

01011 BERYLLIUM, SUSPENDED RECOVERABLE (UG/L AS BE)
01011 BERYLLIUM, SUSPENDED (UG/L AS BE)

01012 BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)
01012 BERYLLIUM, TOTAL (UG/L AS BE)

01013 BERYLLIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS BE)
01013 BERYLLIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS BE)

03505 BETA, SUSPENDED TOTAL (PCI/L)
03505 BETA, SUSPENDED (PCI/L)
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PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
03506	BETA, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
03506	BETA, SUSPENDED, COUNTING ERROR (PCI/L)
01016	BISMUTH, SUSPENDED TOTAL (UG/L AS BI)
01016	BISMUTH, SUSPENDED (UG/L AS BI)
01021	BORON, SUSPENDED RECOVERABLE (UG/L AS B)
01021	BORON, SUSPENDED (UG/L AS B)
01022	BORON, TOTAL RECOVERABLE (UG/L AS B)
01022	BORON, TOTAL (UG/L AS B)
01023	BORON, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS B)
01023	BORON, TOTAL IN BOTTOM MATERIAL (UG/G AS B)
01026	CADMIUM, SUSPENDED RECOVERABLE (UG/L AS CD)
01026	CADMIUM, SUSPENDED (UG/L AS CD)
01027	CADMIUM, TOTAL RECOVERABLE (UG/L AS CD)
01027	CADMIUM, TOTAL (UG/L AS CD)
01028	CADMIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CD)
01028	CADMIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS CD)
00916	CALCIUM, TOTAL RECOVERABLE (MG/L AS CA)
00916	CALCIUM, TOTAL (MG/L AS CA)
07052	CALCIUM 45, SUSPENDED TOTAL (PCI/L)
07052	CALCIUM 45, SUSPENDED (PCI/L)
07053	CALCIUM 45, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07053	CALCIUM 45, SUSPENDED, COUNTING ERROR (PCI/L)
00683	CARBON, ORGANIC, SUSPENDED TOTAL (MG/L AS C)
00683	CARBON, ORGANIC, SUSPENDED (MG/L AS C)
00688	CARBON, INORGANIC, SUSPENDED TOTAL (MG/L AS C)
00688	CARBON, INORGANIC, SUSPENDED (MG/L AS C)
00689	CARBON, ORGANIC, SUSPENDED TOTAL (MG/L AS C)
00689	CARBON, ORGANIC, SUSPENDED (MG/L AS C)
00694	CARBON, INORGANIC PLUS ORGANIC, SUSPENDED TOTAL (MG/L AS C)
00694	CARBON, INORGANIC PLUS ORGANIC, SUSPENDED (MG/L AS C)
01116	CESIUM, SUSPENDED TOTAL (UG/L AS CS)
01116	CESIUM, SUSPENDED (UG/L AS CS)
28404	CESIUM 137, SUSPENDED TOTAL (PCI/L)
28404	CESIUM 137, SUSPENDED (PCI/L)
28405	CESIUM 137,SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
28405	CESIUM 137,SUSPENDED, COUNTING ERROR (PCI/L)
28412	CESIUM 134, SUSPENDED TOTAL (PCI/L)
28412	CESIUM 134, SUSPENDED (PCI/L)

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PARM.      NEW TERMINOLOGY -- FIRST LINE
CODE       OLD TERMINOLOGY -- SECOND LINE
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28413  CESIUM 134, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
28413  CESIUM 134, SUSPENDED, COUNTING ERROR (PCI/L)

39353  CHLORDANE, SUSPENDED TOTAL (UG/L)
39353  CHLORDANE, SUSPENDED (UG/L)

01029  CHROMIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CR)
01029  CHROMIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS CR)

01031  CHROMIUM, SUSPENDED RECOVERABLE (UG/L AS CR)
01031  CHROMIUM, SUSPENDED (UG/L AS CR)

01034  CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)
01034  CHROMIUM, TOTAL (UG/L AS CR)

01036  COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)
01036  COBALT, SUSPENDED (UG/L AS CO)

01037  COBALT, TOTAL RECOVERABLE (UG/L AS CO)
01037  COBALT, TOTAL (UG/L AS CO)

01038  COBALT, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CO)
01038  COBALT, TOTAL IN BOTTOM MATERIAL (UG/G AS CO)

01041  COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)
01041  COPPER, SUSPENDED (UG/L AS CU)

01042  COPPER, TOTAL RECOVERABLE (UG/L AS CU)
01042  COPPER, TOTAL (UG/L AS CU)

01043  COPPER, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS CU)
01043  COPPER, TOTAL IN BOTTOM MATERIAL (UG/G AS CU)

39362  DDD, SUSPENDED TOTAL (UG/L)
39362  DDD, SUSPENDED (UG/L)

39367  DDE, SUSPENDED TOTAL (UG/L)
39367  DDE, SUSPENDED (UG/L)

39372  DDT, SUSPENDED TOTAL (UG/L)
39372  DDT, SUSPENDED (UG/L)

39573  DIAZINON, SUSPENDED TOTAL (UG/L)
39573  DIAZINON, SUSPENDED (UG/L)

39382  DIELDRIN, SUSPENDED TOTAL (UG/L)
39382  DIELDRIN, SUSPENDED (UG/L)

39392  ENDRIN, SUSPENDED TOTAL (UG/L)
39392  ENDRIN, SUSPENDED (UG/L)

01121  GALLIUM, SUSPENDED TOTAL (UG/L AS GA)
01121  GALLIUM, SUSPENDED (UG/L AS GA)

01126  GERMANIUM, SUSPENDED TOTAL (UG/L AS GE)
01126  GERMANIUM, SUSPENDED (UG/L AS GE)
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PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
01516	GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL (PCI/L AS U NATURAL)
01516	GROSS ALPHA RADIOACTIVITY, SUSPENDED (PCI/L AS U NATURAL)
01517	GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL (PCI/G AS U NATURAL)
01517	GROSS ALPHA RADIOACTIVITY, SUSPENDED (PCI/G AS U NATURAL)
01518	GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL (UG/G AS U NATURAL)
01518	GROSS ALPHA RADIOACTIVITY, SUSPENDED (UG/G AS U NATURAL)
80040	GROSS ALPHA RADIOACTIVITY, SUSPENDED TOTAL (UG/L AS U NATURAL)
80040	GROSS ALPHA RADIOACTIVITY, SUSPENDED (UG/L AS U NATURAL)
80060	GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL (PCI/L AS SR/YT-90)
80060	GROSS BETA RADIOACTIVITY, SUSPENDED (PCI/L AS SR/YT-90)
03516	GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL (PCI/L AS CS-137)
03516	GROSS BETA RADIOACTIVITY, SUSPENDED (PCI/L AS CS-137)
03517	GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL (PCI/G AS SR/YT-90)
03517	GROSS BETA RADIOACTIVITY, SUSPENDED (PCI/G AS SR/YT-90)
03518	GROSS BETA RADIOACTIVITY, SUSPENDED TOTAL (PCI/G AS CS-137)
03518	GROSS BETA RADIOACTIVITY, SUSPENDED (PCI/G AS CS-137)
39412	HEPTACHLOR, SUSPENDED TOTAL (UG/L)
39412	HEPTACHLOR, SUSPENDED (UG/L)
39422	HEPTACHLOR EPOXIDE, SUSPENDED TOTAL (UG/L)
39422	HEPTACHLOR EPOXIDE, SUSPENDED (UG/L)
01044	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)
01044	IRON, SUSPENDED (UG/L AS FE)
01045	IRON, TOTAL RECOVERABLE (UG/L AS FE)
01045	IRON, TOTAL (UG/L AS FE)
01170	IRON, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS FE)
01170	IRON, TOTAL IN BOTTOM MATERIAL (UG/G AS FE)
07062	IRON 59, SUSPENDED TOTAL (PCI/L)
07062	IRON 59, SUSPENDED (PCI/L)

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PARM.      NEW TERMINOLOGY -- FIRST LINE
CODE       OLD TERMINOLOGY -- SECOND LINE
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07063  IRON 59, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07063  IRON 59, SUSPENDED, COUNTING ERROR (PCI/L)

39432  ISODRIN, SUSPENDED TOTAL (UG/L)
39432  ISODRIN, SUSPENDED (UG/L)

01050  LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)
01050  LEAD, SUSPENDED (UG/L AS PB)

01051  LEAD, TOTAL RECOVERABLE (UG/L AS PB)
01051  LEAD, TOTAL (UG/L AS PB)

01052  LEAD, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS PB)
01052  LEAD, TOTAL IN BOTTOM MATERIAL (UG/G AS PB)

39342  LINDANE, SUSPENDED TOTAL (UG/L)
39342  LINDANE, SUSPENDED (UG/L)

01131  LITHIUM, SUSPENDED RECOVERABLE (UG/L AS LI)
01131  LITHIUM, SUSPENDED (UG/L AS LI)

01132  LITHIUM, TOTAL RECOVERABLE (UG/L AS LI)
01132  LITHIUM, TOTAL (UG/L AS LI)

00926  MAGNESIUM, SUSPENDED RECOVERABLE (MG/L AS MG)
00926  MAGNESIUM, SUSPENDED (MG/L AS MG)

00927  MAGNESIUM, TOTAL RECOVERABLE (MG/L AS MG)
00927  MAGNESIUM, TOTAL (MG/L AS MG)

39533  MALATHION, SUSPENDED TOTAL (UG/L)
39533  MALATHION, SUSPENDED (UG/L)

01053  MANGANESE, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS MN)
01053  MANGANESE, TOTAL IN BOTTOM MATERIAL (UG/G AS MN)

01054  MANGANESE, SUSPENDED RECOVERABLE (UG/L AS MN)
01054  MANGANESE, SUSPENDED (UG/L AS MN)

01055  MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)
01055  MANGANESE, TOTAL (UG/L AS MN)

71895  MERCURY, SUSPENDED RECOVERABLE (UG/L AS HG)
71895  MERCURY, SUSPENDED (UG/L AS HG)

71900  MERCURY, TOTAL RECOVERABLE (UG/L AS HG)
71900  MERCURY, TOTAL (UG/L AS HG)

71921  MERCURY, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS HG)
71921  MERCURY, TOTAL IN BOTTOM MATERIAL (UG/G AS HG)

39603  METHYL PARATHION, SUSPENDED TOTAL (UG/L)
39603  METHYL PARATHION, SUSPENDED (UG/L)

39757  MIREX, SUSPENDED TOTAL (UG/L)
39757  MIREX, SUSPENDED (UG/L)
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PARM.      NEW TERMINOLOGY -- FIRST LINE
CODE       OLD TERMINOLOGY -- SECOND LINE
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01061  MOLYBDENUM, SUSPENDED RECOVERABLE (UG/L AS MO)
01061  MOLYBDENUM, SUSPENDED (UG/L AS MO)

01062  MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)
01062  MOLYBDENUM, TOTAL (UG/L AS MO)

01063  MOLYBDENUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS MO)
01063  MOLYBDENUM, TOTAL IN BOTTOM MATERIAL (UG/G AS MO)

01066  NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)
01066  NICKEL, SUSPENDED (UG/L AS NI)

01067  NICKEL, TOTAL RECOVERABLE (UG/L AS NI)
01067  NICKEL, TOTAL (UG/L AS NI)

01068  NICKEL, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS NI)
01068  NICKEL, TOTAL IN BOTTOM MATERIAL (UG/G AS NI)

00623  NITROGEN, AMMONIA PLUS ORGANIC, DISSOLVED (MG/L AS N)
00623  NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)

00624  NITROGEN, AMMONIA PLUS ORGANIC, SUSPENDED TOTAL (MG/L AS N)
00624  NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)

00625  NITROGEN, AMMONIA PLUS ORGANIC, TOTAL (MG/L AS N)
00625  NITROGEN, KJELDAHL, TOTAL (MG/L AS N)

00626  NITROGEN, AMMONIA PLUS ORGANIC,
         TOTAL IN BOTTOM MATERIAL, DRY WT (MG/KG AS N)
00626  NITROGEN, KJELDAHL, TOTAL IN BOTTOM MATERIAL, DRY WT (MG/KG AS N)

39543  PARATHION, SUSPENDED TOTAL (UG/L)
39543  PARATHION, SUSPENDED (UG/L)

39518  PCB, SUSPENDED TOTAL (UG/L)
39518  PCB, SUSPENDED (UG/L)

09505  RADIUM 226, SUSPENDED TOTAL (PCI/L)
09505  RADIUM 226, SUSPENDED (PCI/L)

07082  RHODAMINE WT, SUSPENDED TOTAL (UG/L)
07082  RHODAMINE WT, SUSPENDED (UG/L)

01136  RUBIDIUM, SUSPENDED TOTAL (UG/L AS RB)
01136  RUBIDIUM, SUSPENDED (UG/L AS RB)

29633  SCANDIUM 46, SUSPENDED TOTAL (PCI/L)
29633  SCANDIUM 46, SUSPENDED (PCI/L)

29634  SCANDIUM 46, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
29634  SCANDIUM 46, SUSPENDED, COUNTING ERROR (PCI/L)

01146  SELENIUM, SUSPENDED TOTAL (UG/L AS SE)
01146  SELENIUM, SUSPENDED (UG/L AS SE)

07102  SELENIUM 75, SUSPENDED TOTAL (PCI/L)
07102  SELENIUM 75, SUSPENDED (PCI/L)
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PARM.       NEW TERMINOLOGY -- FIRST LINE
CODE        OLD TERMINOLOGY -- SECOND LINE
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07103  SELENIUM 75, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07103  SELENIUM 75, SUSPENDED, COUNTING ERROR (PCI/L)

01076  SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)
01076  SILVER, SUSPENDED (UG/L AS AG)

01077  SILVER, TOTAL RECOVERABLE (UG/L AS AG)
01077  SILVER, TOTAL (UG/L AS AG)

01078  SILVER, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS AG)
01078  SILVER, TOTAL IN BOTTOM MATERIAL (UG/G AS AG)

07122  SILVER 110, SUSPENDED TOTAL (PCI/L)
07122  SILVER 110, SUSPENDED (PCI/L)

07123  SILVER 110, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07123  SILVER 110, SUSPENDED, COUNTING ERROR (PCI/L)

39763  SILVEX, SUSPENDED TOTAL (UG/L)
39763  SILVEX, SUSPENDED (UG/L)

70299  SOLIDS, RESIDUE AT 110 DEG. C, SUSPENDED TOTAL (MG/L)
70299  SOLIDS, RESIDUE AT 110 DEG. C, SUSPENDED (MG/L)

01081  STRONTIUM, SUSPENDED RECOVERABLE (UG/L AS SR)
01081  STRONTIUM, SUSPENDED (UG/L AS SR)

01082  STRONTIUM, TOTAL RECOVERABLE (UG/L AS SR)
01082  STRONTIUM, TOTAL (UG/L AS SR)

01083  STRONTIUM, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS SR)
01083  STRONTIUM, TOTAL IN BOTTOM MATERIAL (UG/G AS SR)

13505  STRONTIUM 90, SUSPENDED TOTAL (PCI/L)
13505  STRONTIUM 90, SUSPENDED (PCI/L)

13506  STRONTIUM 90, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
13506  STRONTIUM 90, SUSPENDED, COUNTING ERROR (PCI/L)

07142  SULFUR 35, SUSPENDED TOTAL (PCI/L)
07142  SULFUR 35, SUSPENDED (PCI/L)

07143  SULFUR 35, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07143  SULFUR 35, SUSPENDED, COUNTING ERROR (PCI/L)

01101  TIN, SUSPENDED RECOVERABLE (UG/L AS SN)
01101  TIN, SUSPENDED (UG/L AS SN)

01102  TIN, TOTAL RECOVERABLE (UG/L AS SN)
01102  TIN, TOTAL (UG/L AS SN)

01151  TITANIUM, SUSPENDED TOTAL (UG/L AS TI)
01151  TITANIUM, SUSPENDED (UG/L AS TI)

39402  TOXAPHENE, SUSPENDED TOTAL (UG/L)
39402  TOXAPHENE, SUSPENDED (UG/L)
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PARM. CODE	NEW TERMINOLOGY -- FIRST LINE OLD TERMINOLOGY -- SECOND LINE
07010	TRITIUM, SUSPENDED TOTAL (PCI/L)
07010	TRITIUM, SUSPENDED (PCI/L)
07011	TRITIUM, SUSPENDED TOTAL, COUNTING ERROR (PCI/L)
07011	TRITIUM, SUSPENDED, COUNTING ERROR (PCI/L)
07014	TRITIUM, SUSPENDED TOTAL, COUNTING ERROR (TRITIUM UNITS)
07014	TRITIUM, SUSPENDED, COUNTING ERROR (TRITIUM UNITS)
07016	TRITIUM, SUSPENDED TOTAL (TRITIUM UNITS)
07016	TRITIUM, SUSPENDED (TRITIUM UNITS)
22705	URANIUM, NATURAL, SUSPENDED TOTAL (UG/L AS U NATURAL)
22705	URANIUM, NATURAL, SUSPENDED (UG/L AS U NATURAL)
01086	VANADIUM, SUSPENDED TOTAL (UG/L AS V)
01086	VANADIUM, SUSPENDED (UG/L AS V)
01091	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)
01091	ZINC, SUSPENDED (UG/L AS ZN)
01092	ZINC, TOTAL RECOVERABLE (UG/L AS ZN)
01092	ZINC, TOTAL (UG/L AS ZN)
01093	ZINC, RECOVERABLE FROM BOTTOM MATERIAL (UG/G AS ZN)
01093	ZINC, TOTAL IN BOTTOM MATERIAL (UG/G AS ZN)
01161	ZIRCONIUM, SUSPENDED TOTAL (UG/L AS ZR)
01161	ZIRCONIUM, SUSPENDED (UG/L AS ZR)
39733	2,4-D, SUSPENDED TOTAL (UG/L)
39733	2,4-D, SUSPENDED (UG/L)
39743	2,4,5-T, SUSPENDED TOTAL (UG/L)
39743	2,4,5-T, SUSPENDED (UG/L)

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FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons